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ABSTRACT

This document is part 2 of the workbook for grade 4 pupils in the Comprehensive Instructional Management System, a unified mathematics curriculum for kindergarten through grade 7. Each objective is developed by a variety of strategies, with mastery of objectives diagnosed through a testing component. The activities in the student workbook are designed to provide practice in mastering the performance objectives, following the sequence in the teacher's manual. Over 120 performance objectives are included in this part of the grade 4 workbook, designed to develop computational skills with fractions, number and numeration concepts, measurement skills, and other mathematical topics. (MNS)

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CIMS

COMPREHENSIVE INSTRUCTIONAL MANAGEMENT SYSTEM

A Cyclical Mathematics Curriculum

Workbook Part 2

SE 045520

NEW YORK CITY BOARD OF EDUCATION
OFFICE OF CURRICULUM DEVELOPMENT AND SUPPORT
DIVISION OF CURRICULUM & INSTRUCTION

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FOREWORD

The Comprehensive Instructional Management System (CIMS) is a unified mathematics curriculum for grades K-7. The curriculum is cyclical in design, and reflects the most recent New York City and New York State guidelines.

Utilizing the experience of our system's teachers, we have developed a teacher-designed curriculum that includes a rich selection of classroom-tested successful mathematics activities. The major goal of the CIMS mathematics project is to provide the classroom teacher with a well-structured, objective-based curriculum. All objectives are supported by a variety of strategies. Student mastery of these objectives is readily diagnosed through the system's testing component.

The curriculum format is structured to allow the teacher to determine the ability level of the students in the topic under study, and to permit the students to move forward at their individual rates. Each module of instruction provides the teacher with a set of related performance objectives. These objectives are supported by activities which probe and develop the students' readiness to undertake new skills and concepts. Further reinforcement is given to mastery of the objectives through accompanying student workbooks.

It is hoped that this curriculum will not only assist teachers in developing vital mathematics instruction, but will serve to expand and enrich students' mathematics skills.

Charlotte Frank

Charlotte Frank,
Executive Director
Division of Curriculum and Instruction

ACKNOWLEDGMENTS

The Comprehensive Instructional Management System (CIMS) was developed as a project of the Division of Curriculum and Instruction, Charlotte Frank, Executive Director. Dr. Peter Negroni, Community School Superintendent CSD 12; Dr. Harvey Garner, Community School Superintendent CSD 18; Carlos Edwards, Community School Superintendent CSD 23, and Joseph Pacheco, Community School Superintendent CSD 32 supervised the overall development of the CIMS program within their respective districts.

Morris Freedman, Director of the Office of Curriculum Development and Support; Irwin Kaufman, Director of Mathematics; Kenneth Bates, Director of CIMS; Maria DeSalvio, Assistant Director of Mathematics; Arthur Flug and Doreen Genkin, Assistant Directors of CIMS and Gene Menchini, Program Manager, Distributive Systems, Office of Data Processing Coordination provided overall supervision of this project.

Division of Special Education

Overall supervision of curriculum in addressing those students with special needs was coordinated by Edward M. Sermier, Chief Administrator, Division of Special Education.

Allan Dobrin, Office of Chief Administrator; Bebe Bernstein, Administrator, Curriculum Development Unit of the Office of Program Development and Geraldine Silver and Susan Wieder, Special Education Coordinators provided guidance and support in addressing these special needs.

Consultants

The program consultants responsible for reviewing the curriculum for mathematics accuracy were:

Harry Ruderman, Assistant Principal Supervision/Mathematics, Hunter College High School (Retired)
Helene Silverman, Associate Professor, Lehman College

Principal Writers

The principal writers responsible for planning the scope, sequence and engaging in the necessary research in writing of the modules were:

Stephen Rappaport, Assistant Principal I.S. 171K
Sara Jane Bass, CIMS Curriculum Leader
Judith Fein, CIMS Curriculum Leader
Lorraine Wan, CIMS Curriculum Leader
Rochelle Watnick, CIMS Curriculum Leader

CIMS District Curriculum Workshops

Each of the participating CIMS community school districts organized a curriculum workshop to write the various curriculum levels.

Community School District 12		Community School District 18	
Mary J. Teshara	District Mathematics Coordinator	Jack Friedman	CSD 18, Director CIMS
Valentin Acabeo	C.S. 134X	Selma Mitlitsky	District Mathematics Coordinator
James F. Gilligan	I.S. 116X	Eileen Backer	P.S. 135K
Selma Gunther	C.S. 50X	Lillian Frechtman	P.S. 279K
Betty Anne Jackson	C.S. 47X	Merle Glass	P.S. 219K
Mark Lehrer	I.S. 158X	Howard Mankes	P.S. 219K
Jewel R. Moolenaar	I.S. 143X	Lillian Pecker	J.H.S. 252K
Marcia Ann Rudnitsky	C.S. 102X	Virginia Pero	J.H.S. 211K
Marcy Dale Stecker	C.S. 47X	Carol J. Reale	P.S. 235K
Ira K. Victor	C.S. 77X	Arlie Solola	J.H.S. 252K
Leonard Zavlick	C.S. 92X	Renee M. Tardi	P.S. 219K

Community School District 23

Wallace Dimson,	District Mathematics Coordinator
Gloria Allen	
Marshall Belson	P.S. 183K
Abraham Butensky	P.S. 165K
Janice Ellenbogen	P.S. 298K
Ruth Fennell	P.S. 298K
Gladys H. Galamison	P.S. 156K
Bruce Landau	P.S. 327K
George McMullen	P.S. 183K
Carmella Murden	J.H.S 275K
Martha Hilinski-Pepe	P.S. 327K
Rochelle Sanders	P.S. 327K
Gary Wexler	P.S. 41K
Priscilla A. Williams	I.S. 271K
Frederick Zwibel	P.S. 184K

Community School District 32

Aurora Larocca,	District Mathematics Coordinator
Pedro J. Colon	J.H.S. 111K
Dorothy A. Conroy	P.S. 116K
Joan Fox	P.S. 116K
Steven Ganzell	I.S. 291K
Akhtar A. Khan	I.S. 291K
Lenore Marie Messina	P.S. 151K
Joanne Narisi	P.S. 299K
George Silverglad	P.S. 274K
Norma Warmund	P.S. 45K
Stephen Elliot Weiss	P.S. 274K
Martin Weissman	P.S. 384K

Citywide Curriculum Developers

Judy Z. Cohen	Corr. Math. N.P.S.	Carmen B. Matthews	CSD 3 J.H.S. 88M
Nancy R. Coleman	CSD 19 Staff Dev.	Edythe Ogin	CSD 19 I.S. 171K
Carl Conetta	Special Ed. Bronx	Joseph A. Porzio	CSD 19 Staff Dev.
Gerri T. Dunne	Corr. Math. N.P.S.	Fred Remer	CSD 6 Math Coord.
Meryl Glass	CSD 22 P.S. 139K	Jon Rothfeld	CSD 19 Staff Dev.
David A. Gold	CSD 19 Staff Dev.	Marvin Schneider	Edward R. Murrow H.S.
Stuart Goldberg	CSD 19 Staff Dev.	Leila Schwartz	Corr. Math. N.P.S.
Michelle Greenberg	CSD 28 P.S. 160Q	Angelina Spero	Corr. Math. N.P.S.
Joyce Jalowski	Corr. Math. N.P.S.	Martin L. Spiro	CSD 19 I.S. 302
Margaret Jordan	Corr. Math. N.P.S.	Bernice Staub	Corr. Math. N.P.S.
Jeffrey Joyce	CSD 15 I.S. 88K	Madeline Sussman	CSD 1 P.S. 142M
Nicholas C. Leo	Corr. Math. N.P.S.	Robert B. Weiss	CSD 28 J.H.S. 190Q
Elaine J. Kaplan	CSD 28 J.H.S. 157Q	Bernice Zuckerman	CSD 19 Staff Dev.
Joan Mahon	CSD 19 Staff Dev.		

Citywide Curriculum Illustrators

Joyce Abramowitz	CSD 26 J.H.S. 158Q	Edward Kissane	Beach Channel H.S.
Amy Appleman	CSD 22 P.S. 194K	Susan M. Seidler	Corr. Math. N.P.S.
Paula J. Blanes	CSD 15 P.S. 39K	Dolores Soldo	Special Ed. Brooklyn
Nina Cucchiari	Special Ed. Bronx	Sandy Susser	Special Ed. Bronx
Charles B. Flisser	Special Ed. Bronx		

Citywide Curriculum Editors

Meryl Fenster	CSD 30 P.S. 171K	Laura J. Lederman	CSD 26 J.H.S. 158Q
Robert Greenman	James Madison H.S.	Mary Newsom-King	CSD 8 J.H.S. 101X
Stephanie Lang-Goldsmith	Special Ed. Queens	Lorraine Wittman	CSD 25 P.S. 169Q

Production Staff

Anne Cohen, Education Analyst
Dorothy Johnson, Office Associate

To The Teacher:

The activities in the CIMS student workbook are designed to provide the pupils with practice in mastering the curriculum's performance objectives and follows the sequence of the CIMS teacher's manual. Each workbook activity page lists the corresponding performance objective number in the upper left hand corner. The activity page numbers are identical to those found in the CIMS teacher's manual.

To The Student:

This mathematics workbook will help you to practice many of the new ideas your teachers have presented. Each worksheet has examples of the material you have studied in your daily mathematics lesson. As you proceed through this workbook, you will notice that you have learned many skills and will be ready to move on to more difficult ones.

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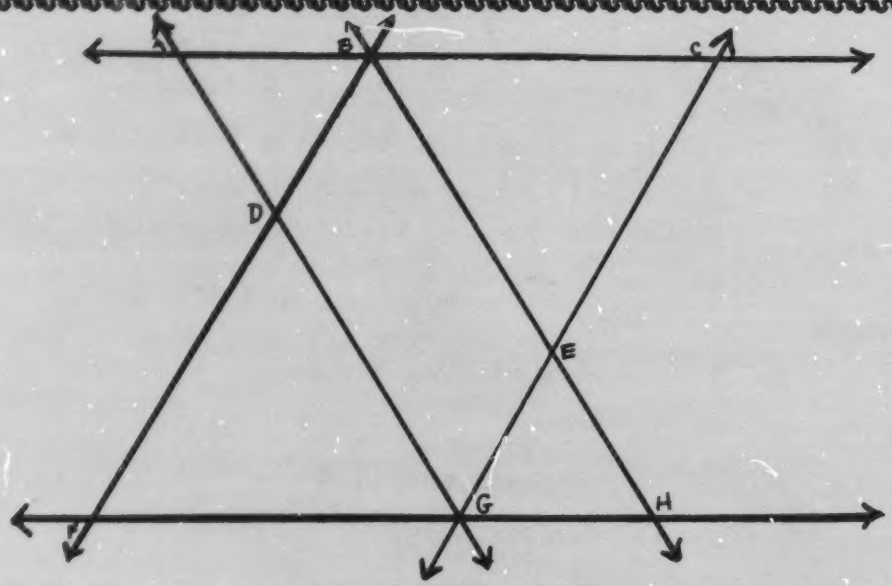
P.O. 4.09.02.01-03

NAME:_____CLASS:_____DATE:_____

Fill in the blanks.



AC and FH are perpendicular parallel lines.

FB and GC are intersecting parallel lines.

FB and AG are parallel intersecting lines.

CG and HB are parallel perpendicular lines.

GC and BH intersect ray at point E.

The angle formed at point E are left right angles.

Draw a set of parallel lines, intersecting lines and perpendicular lines.

P.O. 4.07.01.01

NAME: _____ CLASS: _____ DATE: _____

1. Write the decimal fraction.
2. Match the fraction and the decimal.
3. Circle the hundreths.

1) Write the decimal fraction.

$\frac{12}{100}$ $\frac{25}{100}$ $\frac{37}{100}$ $\frac{5}{100}$ $\frac{1}{100}$ $\frac{7}{100}$ $\frac{9}{100}$

___ ___ ___ ___ ___ ___ ___

2) Can you match ?

$\frac{4}{100}$	.12
$\frac{12}{100}$	.99
$\frac{26}{100}$	.04
$\frac{39}{100}$	.26
$\frac{99}{100}$	.39

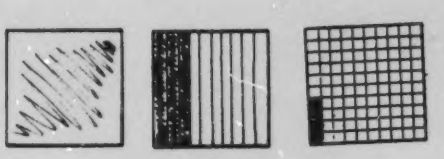
3) Circle the hundreths.

.12	.04
12	.2
.02	1.6
400	4.83
2.19	75

P.O. 4.07.01.02

NAME: _____ CLASS: _____ DATE: _____

1. Write the decimal.
2. Write the place value of the circled digit.



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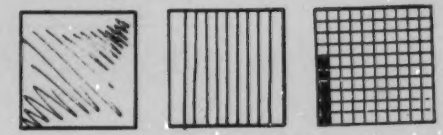
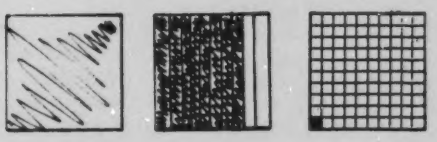




8.(4)6

9.0(7)

6.2(5)

(1).11

P.O. 4.12.02.01

NAME:_____ CLASS:_____ DATE:_____

Choose the correct spinner.

1. Place a "1" under the spinner that has a zero probability of showing a 1.

2. Place a "2" under the spinner that has a zero probability of showing a 2.

3. Place a "3" under the spinner that has a zero probability of showing a 4.

4. Place a "4" under the spinner that has a zero probability of showing a 7.

P.O. 4.12.02.02

NAME: _____ CLASS: _____ DATE: _____

Write the probability for each event.

1. What is the probability that 4 will be selected by the spinner?

2. What is the probability that 3 will be selected by the spinner?

_____

Ted for class President	Joe for class President	Stacey for class President

1. What is the probability that Joe will be elected?

_____

2. What is the probability that Stacey will be elected?

_____

P.O. 4.12.02.03

NAME: _____ CLASS: _____ DATE: _____

Write the probability for each event.

1. What is the probability of choosing a circle?

_____

2. What is the probability of choosing a diamond?

_____

3. What is the probability of choosing a triangle?

_____

1. What is the probability that an apple will be eaten?

_____

2. What is the probability that an orange will be eaten?

_____

3. What is the probability that a banana will be eaten?

_____

P.O. ~~4.12.02.04~~

NAME:_____ CLASS:_____ DATE:_____

Answer each question.

1. How many random numbers can be chosen by spinning a wheel that has numbers from one through three?

2. How many random numbers can be chosen by spinning wheel that has numbers from 1 through 4, with each number repeated twice?

3. Why won't this spinner produce random number from zero through 8?

4. Why won't this spinner produce a random number from 1 through 6?

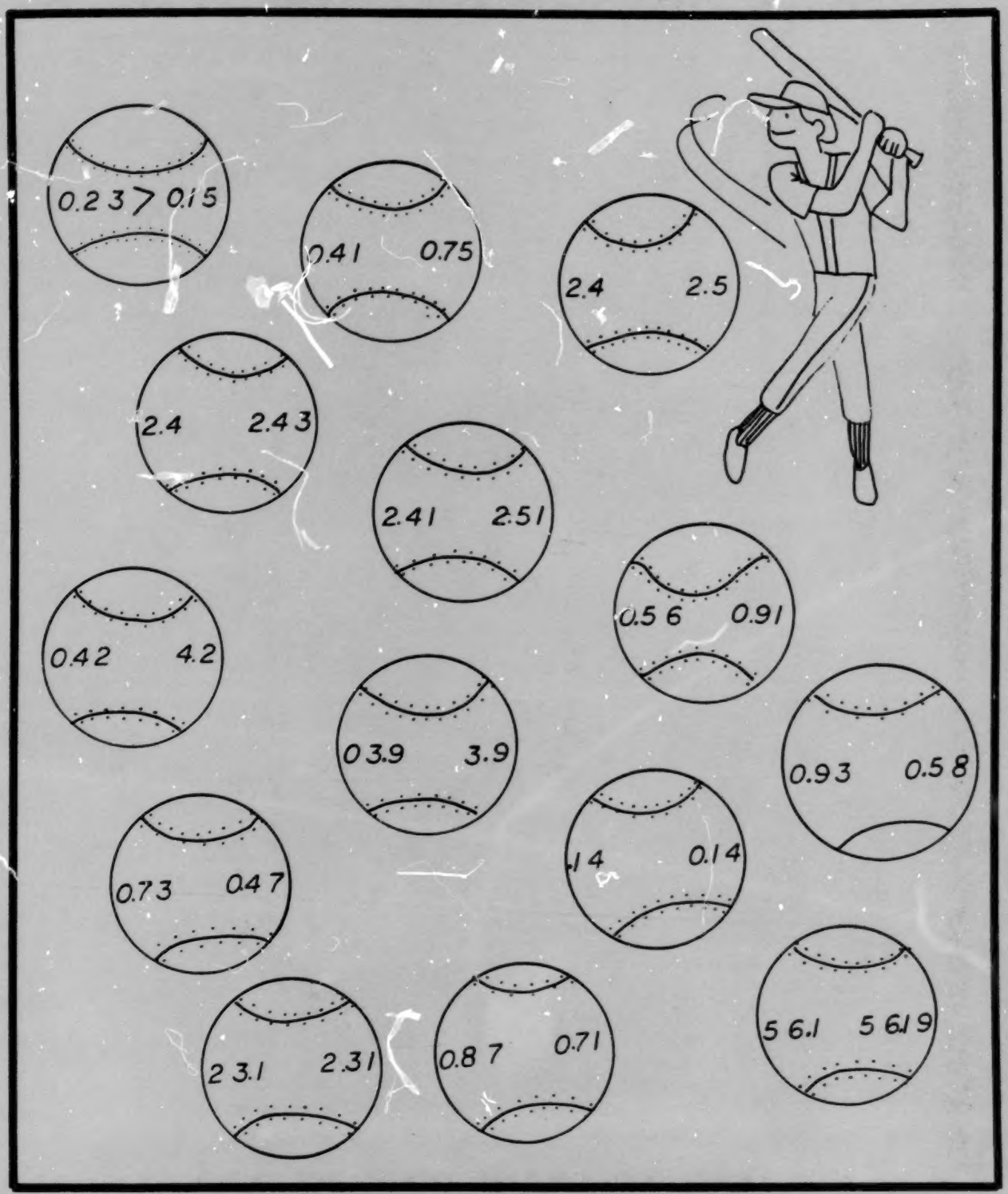
5. True or False
   a. A student can make a choice when selecting a random number.

   b. In a group of random numbers, each number must have an equal distribution.

P.O. 4.07.02.01

NAME: _____ CLASS: _____ DATE: _____

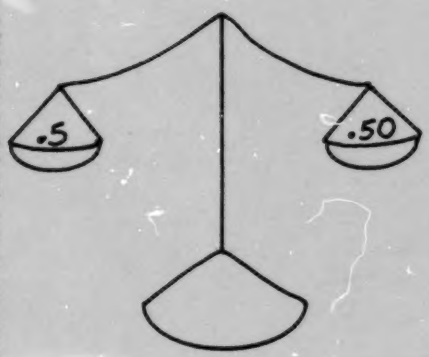
Use the symbol $>$ (greater than) $<$ (less than) $=$ (equal) to compare each set of decimals.



P.O. 4.07.02.02

NAME:_____ CLASS:_____ DATE:_____

Match.

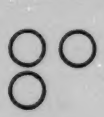
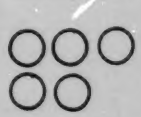


.4	.90
.9	1.30
.7	.60
1.3	.70
.6	.30
.3	.40
.8	.10
.2	.30
.3	.20
.1	.80

P.O. 4.01.10.01

NAME: _____ CLASS: _____ DATE: _____

Draw circles for these numbers to form rectangles or squares. In each direction there must be at least two circles. Put a square around the numbers that do not fit this pattern.

2	3 	4	5 
6	7	8	9
10	11	12	13
14	15	16	17
18	19	20	21
22	23	24	25

P.O. 4.01.10.02

NAME:_____ CLASS:_____ DATE:_____

Color in number. Circle two and color every second box. Circle three and put a check in third box. Circle five and make an x in every fifth box. Circle seven and make a * in every seventh box. Circle all the numbers that are unmarked.

11 5 1

3 43

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

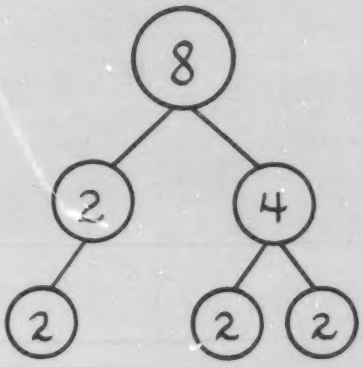
List the circled numbers:

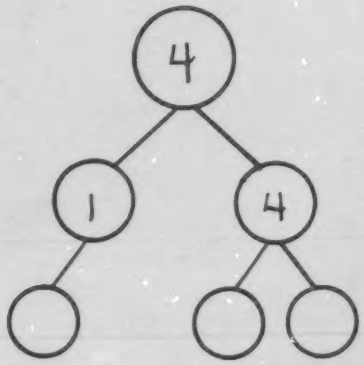
2	3	5	7	11	13

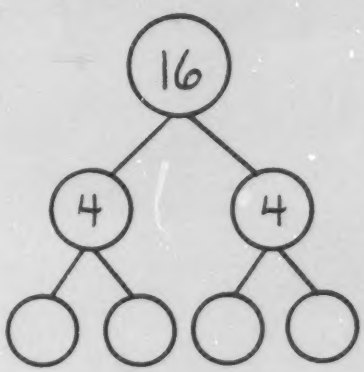
P.O. 4.01.04.04

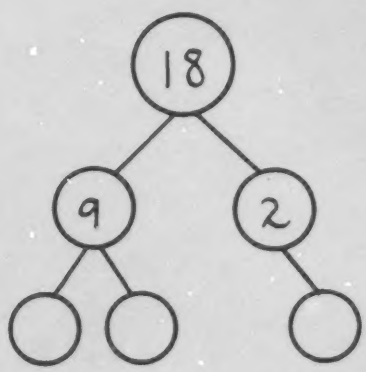
NAME: _____ CLASS: _____ DATE: _____

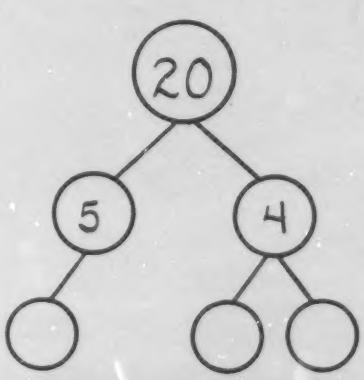
Rename each number as a product of its primes.

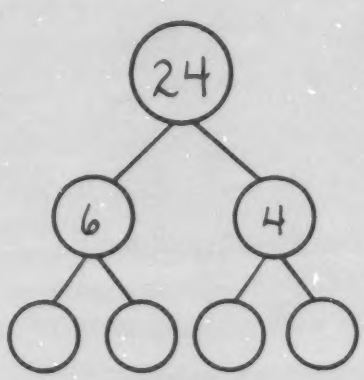












P.O. 4.09.03.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions next to each number.

① Circle the radius.

a.

b.

c.

d.

② Draw as many radii for this circle that you can. (Use a ruler.)

③ Put an X under the circle that shows a diameter.

④ Draw as many diameters for this circle that that you can.

P.O. 4.09.03.02

NAME: _____ CLASS: _____ DATE: _____

1. Place an X on each chord.
2. Match
3. Use letters to name the chords. List each chord.
4. Construct a shape inside each circle. Name the chords.

① Place an X on each chord.

② Match

Radius

Diameter

Chord

③ Use letters to name the chords. List each chord.

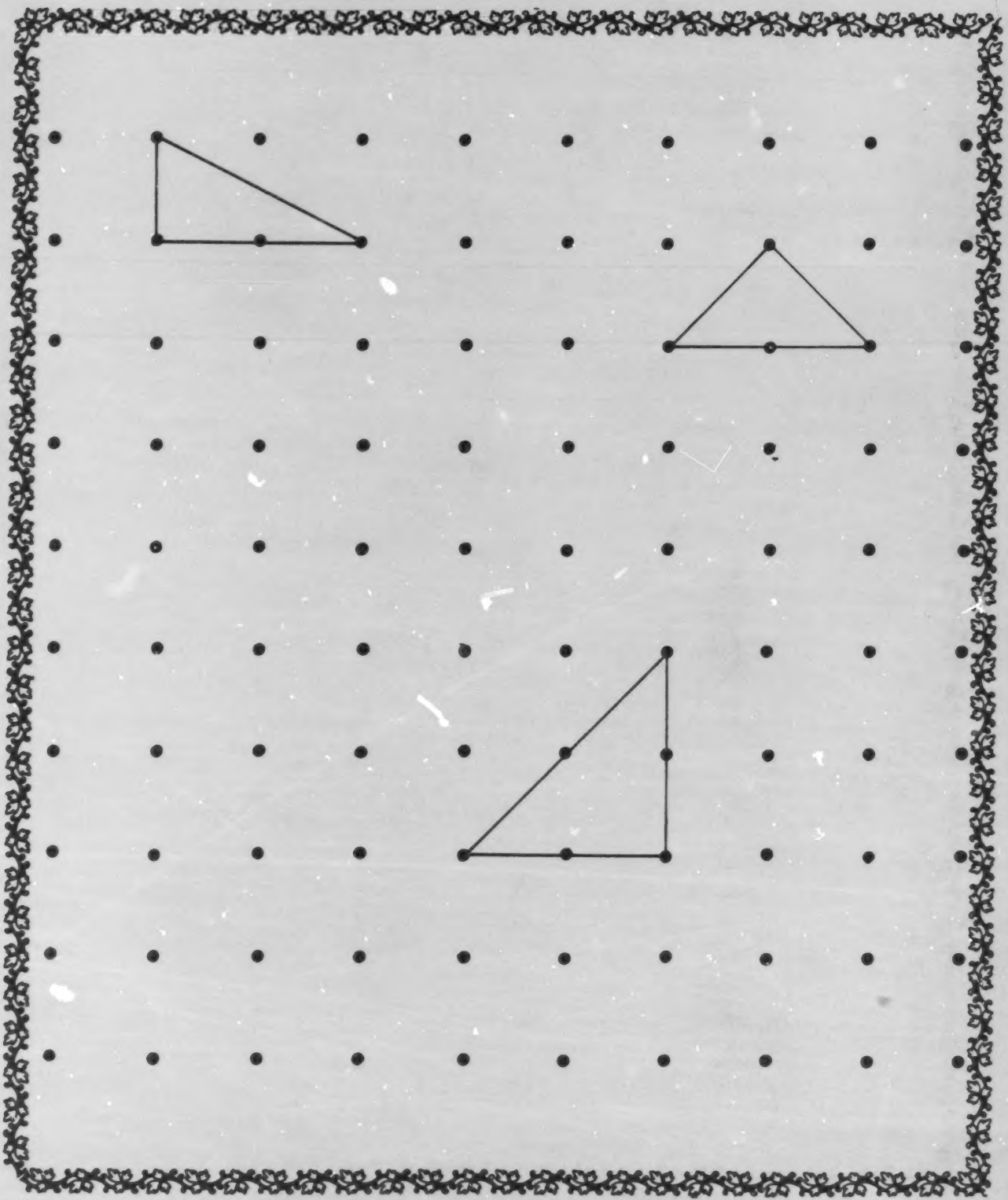
④ Construct a shape inside each circle. Name the chords.

$\overline{AB}$
$\overline{AC}$
$\overline{BC}$

P.O. 4.09.04.01

NAME: _____ CLASS: _____ DATE: _____

How many triangles can you make?

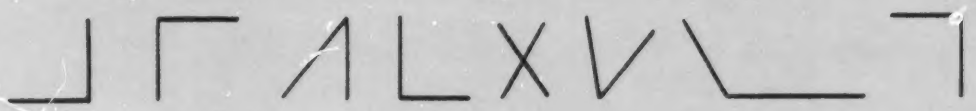


P.O. 4.09.04.02

NAME:_____CLASS:_____DATE:_____

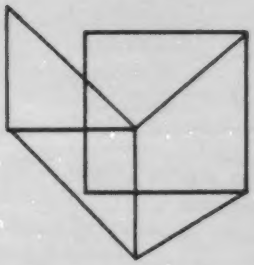
I. Circle the right angles.
II. Circle the right triangle.
III. How many right triangles can you find.

I

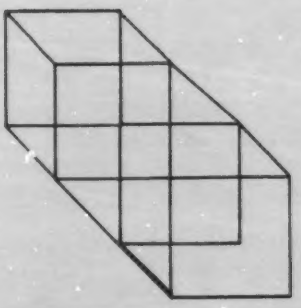


II

III



_____

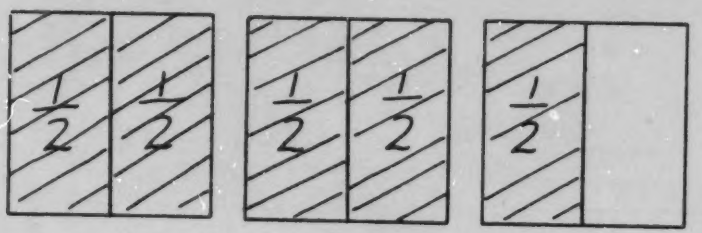


_____

P.O. 4.06.04.01

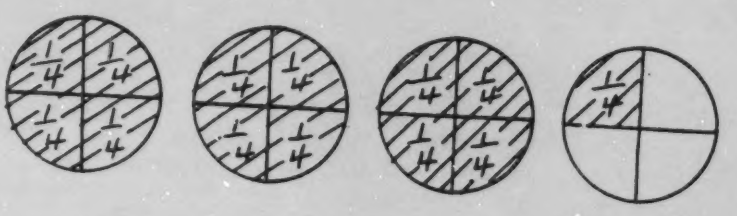
NAME: _____ CLASS: _____ DATE: _____

How many parts are shaded? Write the number in two ways.



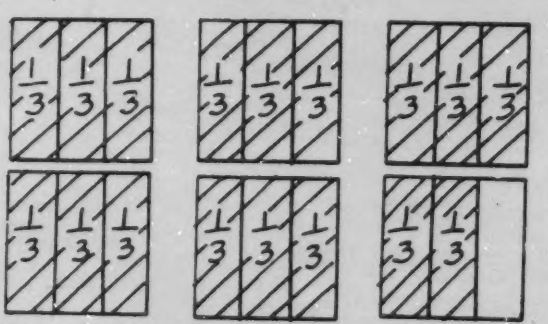
$= \frac{5}{2}$ improper fraction

$2\frac{1}{2}$ mixed numeral



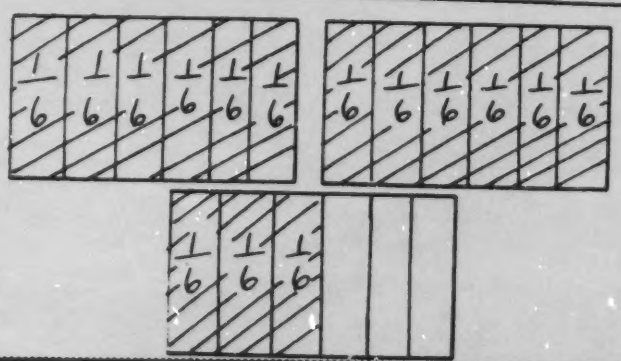
= _____

_____



= _____

_____



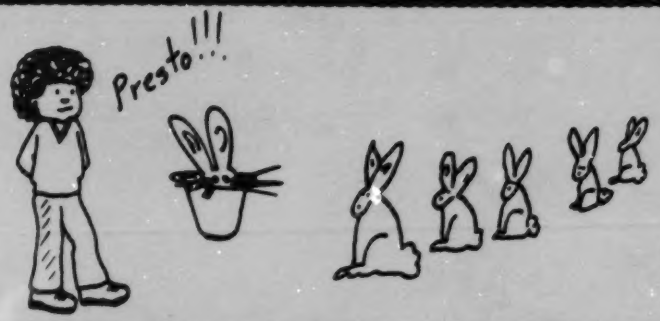
= _____

_____

P.O. 4.06.04.02

NAME: _____ CLASS: _____ DATE: _____

Change each improper fraction to a mixed number. Show your work.



$\frac{5}{3} = 1\frac{2}{3}$ $3\overline{)5}$ -3 2	$\frac{4}{3}$
$\frac{7}{2}$	$\frac{13}{6}$
$\frac{19}{8}$	$\frac{25}{4}$
$\frac{19}{5}$	$\frac{22}{3}$

P.O. 4.10.03.01

NAME:_____ CLASS:_____ DATE:_____

Complete the table on the top of the page.
Use the table to complete the page.

1 cup = 8 oz.
1 pint = __oz.
1 quart = __oz.
1 gallon = __oz.

1) Jane's mother used 5 cups of water to make lemonade. How many ounces of water did she use?_____

2) The label on the juice bottle says "1 pint and 8 ounces." How many ounces is this?_____

3) How many ounces are in this quart of milk?_____

4) How many ounces of ice cream are in this container?_____

5) How many ounces are in 3 quarts of milk?_____

6) Mrs. Brown's baby drinks 6 four ounce bottles of formula each day. How many pints of formula does she need to buy each day?_____

7) Complete the chart.

cups	1	2	3	4
ounces	8			

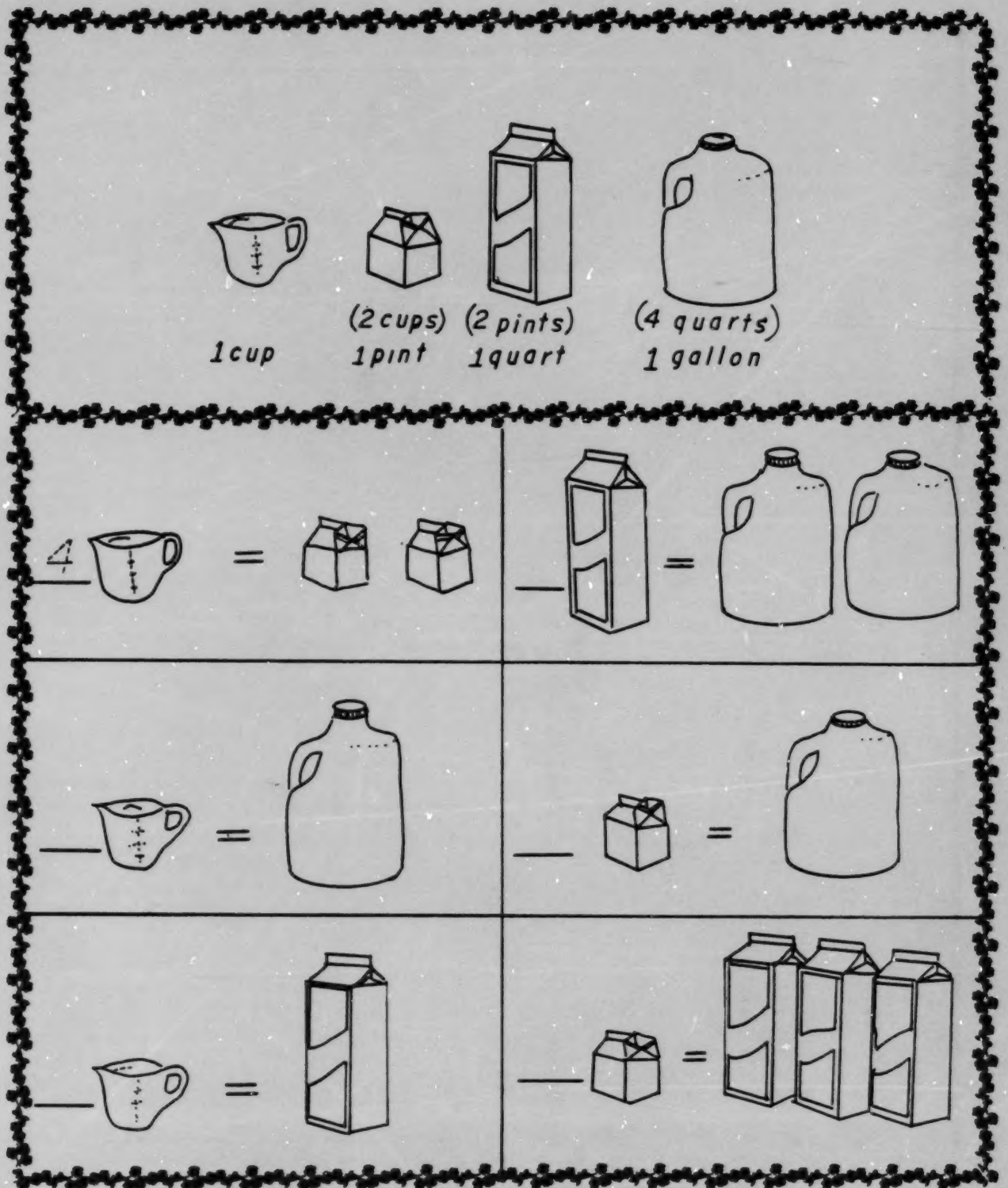
8) Complete the chart.

quarts	1	2	3	4
ounces	32			

P.O. 4.10.03.02

NAME: _____ CLASS: _____ DATE: _____

Fill in the blanks.



P.O. 4.10.03.03

NAME: _____ CLASS: _____ DATE: _____

Read the recipe on the top of the page.
Answer each question.

COCOA

Combine 4 tablespoons of cocoa, 4 tablespoons of sugar and a pinch of salt in a saucepan. Add 1 cup of cold water and boil for 2 minutes. Stir while it is boiling. Add 3 cups of whole milk; heat throughly but do not boil. Add 1 teaspoon of vanilla extract. Beat with a rotary egg beater. Makes six servings.

1. What are the 6 ingredients you will need to make the cocoa? _____, _____, _____, _____, _____, _____,

2. What measuring equipment will you need?

   _____.

3. How many servings will this receipe make?

   _____ .

4. How many cups of milk would you need to add if you wanted to make 12 servings? _____ .

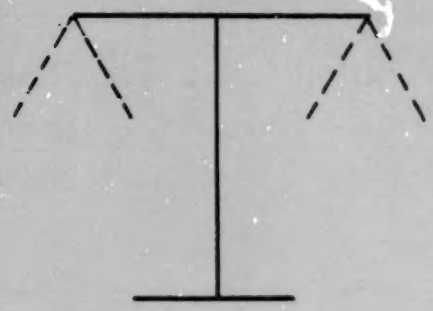
5. Try this recipe at home with your mother.

   How did you like it? _____.
   How long did it take? _____.

P.O. 4.06.05.01

NAME: _____ CLASS: _____ DATE: _____

Balance the scales by matching the two addition examples which have the same answer.



$\frac{1}{6} + \frac{3}{6}$

$\frac{5}{10} + \frac{2}{10}$

$\frac{4}{8} + \frac{2}{8}$

$\frac{3}{6} + \frac{2}{6}$

$\frac{4}{9} + \frac{3}{9}$

$\frac{2}{6} + \frac{2}{6}$

$\frac{3}{10} + \frac{4}{10}$

$\frac{2}{9} + \frac{2}{9}$

$\frac{1}{9} + \frac{3}{9}$

$\frac{2}{9} + \frac{5}{9}$

$\frac{4}{6} + \frac{1}{6}$

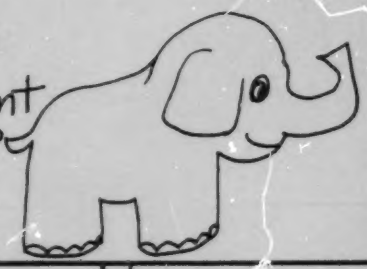
$\frac{5}{8} + \frac{1}{8}$

P.O. 4.06.05.02

NAME: _____ CLASS: _____ DATE: _____

Solve.
Use the key to solve the secret message.

What do you get when you cross an elephant with Darth Vader?



a $\frac{11}{15} - \frac{3}{15} = \frac{9}{15}$

b $\frac{10}{15} - \frac{1}{15} =$

c $\frac{6}{12} - \frac{2}{12}$

d $\frac{3}{4} - \frac{1}{4} =$

e $\frac{8}{16} - \frac{3}{16}$

f $\frac{4}{10} - \frac{1}{10} =$

g $\frac{8}{12} - \frac{4}{12}$

h $\frac{20}{25} - \frac{15}{25}$

i $\frac{7}{8} - \frac{1}{8} =$

j $\frac{5}{5} - \frac{1}{5} =$

$\frac{A}{a}$ $\frac{}{e}$ $\frac{}{c}$ $\frac{}{h}$ $\frac{}{g}$ $\frac{}{f}$ $\frac{}{b}$ $\frac{}{j}$ $\frac{}{d}$ $\frac{}{i}$

Key

A	E	L	N	O	R	T	V
$\frac{9}{15}$	$\frac{4}{12}$	$\frac{5}{25}$	$\frac{5}{16}$	$\frac{2}{4}$	$\frac{6}{8}$	$\frac{4}{5}$	$\frac{3}{10}$

P.O. 4.06.05.03

NAME: _____ CLASS: _____ DATE: _____

Solve the problems. Use the code to find out the secret message.

① $5\frac{1}{4} + 2\frac{1}{4}$ = _____

② $3\frac{1}{5} + 2\frac{1}{5}$ = _____

③ $3\frac{2}{9} + 2\frac{2}{9}$ = _____

④ $1\frac{1}{5} + 4\frac{1}{5}$ = _____

⑤ $3\frac{4}{6} + 2\frac{1}{6}$ = _____

⑥ $4\frac{3}{8} + 2\frac{4}{8}$ = _____

⑦ $3\frac{4}{12} + 4\frac{6}{12}$ = _____

⑧ $3\frac{1}{9} + 4\frac{3}{9}$ = _____

⑨ $5\frac{1}{8} + 2\frac{3}{8}$ = _____

⑩ $2\frac{3}{6} + 5\frac{2}{6}$ = _____

1	2	3	4	5	6	7	8	9	10

$5\frac{5}{6}$	$5\frac{4}{9}$	$7\frac{10}{12}$	$7\frac{2}{4}$	$7\frac{4}{9}$	$6\frac{7}{8}$	$7\frac{5}{6}$	$5\frac{2}{5}$	$7\frac{4}{8}$
U	Y	B	D	E	R	T	O	S

P.O. 04.06.05.02

NAME: _____ CLASS: _____ DATE: _____

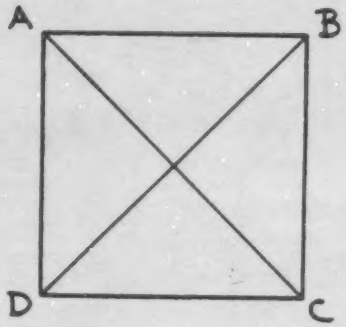
Find the difference.

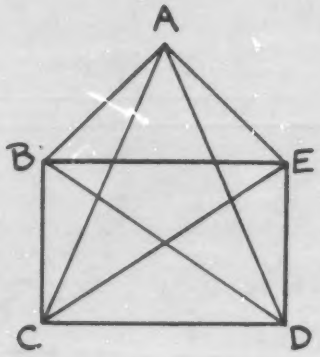
$9\frac{6}{7} - 2\frac{1}{7} = 7\frac{5}{7}$	$8\frac{7}{8} - 2\frac{3}{8}$	$5\frac{9}{10} - 1\frac{3}{10}$
$8\frac{11}{12} - 5\frac{5}{12}$	$7\frac{8}{9} - 5\frac{2}{9}$	$9\frac{}{8} - 2\frac{1}{8}$
$8\frac{9}{10} - 4\frac{1}{10}$	$9\frac{3}{4} - 1\frac{1}{4}$	$5\frac{9}{12} - 2\frac{7}{12}$

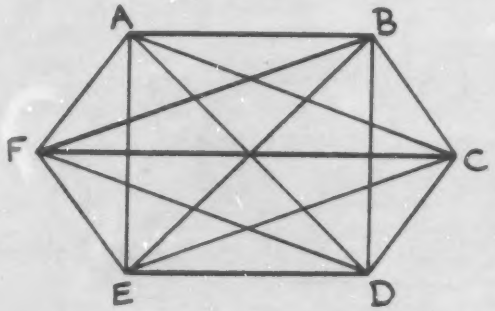
P.O. 4.09.05 01-02

NAME: _____ CLASS: _____ DATE: _____

How many diagonals in each figure?
Name the diagonals.



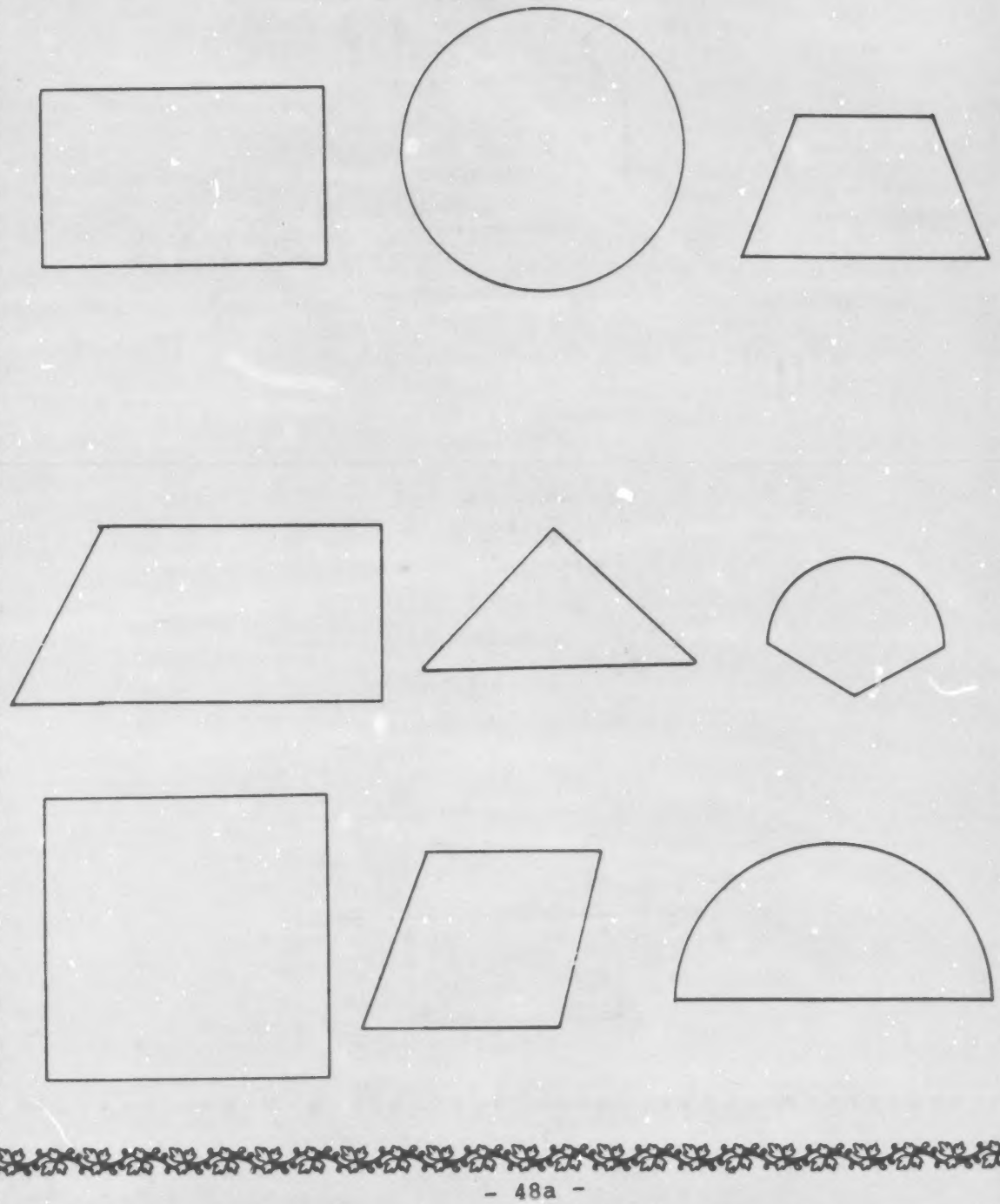




P.O. 4.09.06.01

NAME:_____CLASS:_____DATE:_____

Color all the parallelograms.

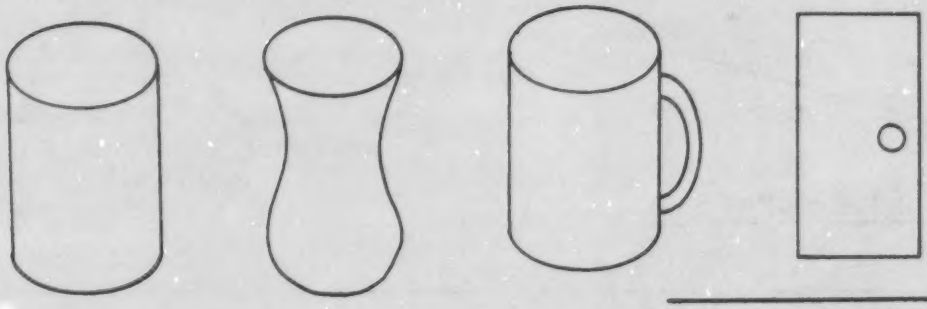


P.O. 4.09.06.02

NAME: _____ CLASS: _____ DATE: _____

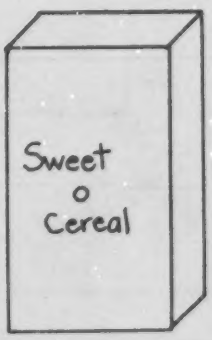
1. Circle the parallelogram.
2. How many parallelograms do you see in this figure?
3. How many parallelograms do you see in this picture?

Circle the parallelograms.



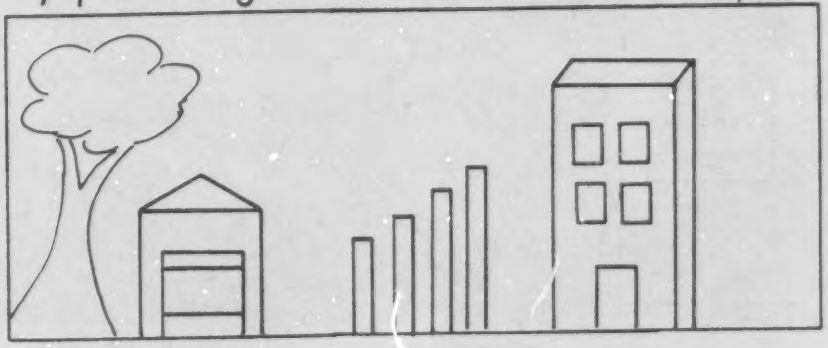
_____

How many parallelograms do you see in this figure?



_____

How many parallelograms do you see in this picture?

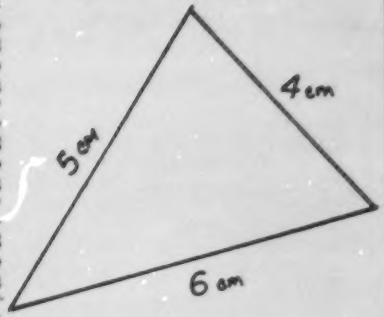


_____

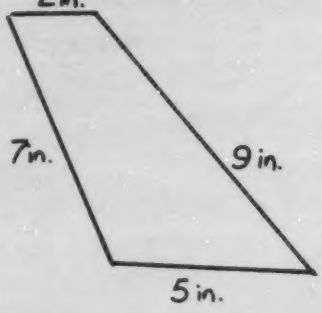
P.O. 4.10.04.01

NAME: _____ CLASS: _____ DATE: _____

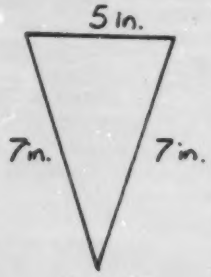
Find the perimeter of each figure.
Label your answer with the correct unit of measurement.



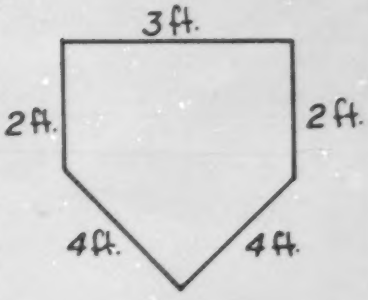
$P = 5 + 4 + 6 = 15$ cm



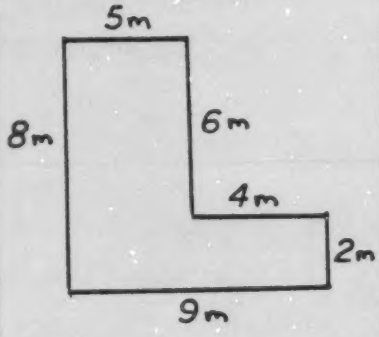
$P =$ _____



$P =$ _____



$P =$ _____



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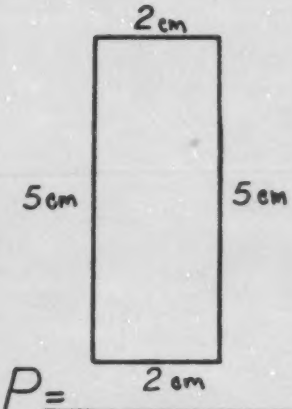
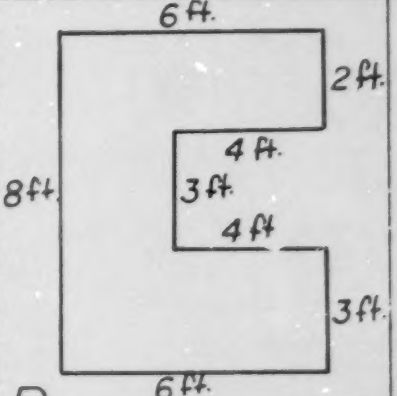


$P =$ _____



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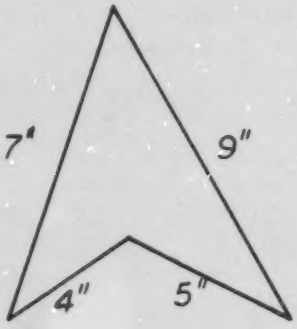
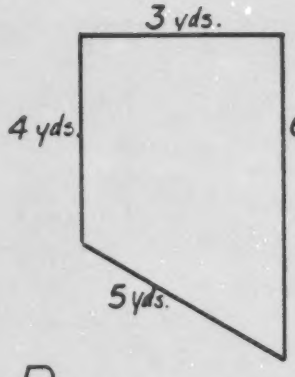


$P =$ _____

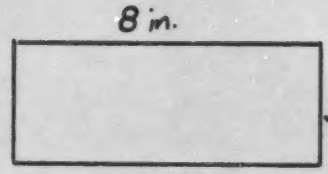


$P =$ _____

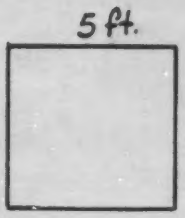
P.O. 4.10.04.02

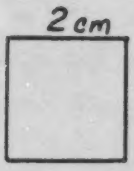
NAME:_____ CLASS:_____ DATE:_____

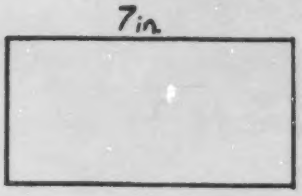
Use the formula to find the perimeter.



$P = (8+3) \times 2$
$= 22 \text{ in.}$







Length of rectangle	3 cm	5 in.	4 in.	6 ft.	4 cm	5 m	8 yds.
Width of rectangle	2 cm	3 in.	1 in.	3 ft.	2 cm	1 m	2 yds.
Perimeter	12 cm						

P.O. 4.05.04.01

NAME: _____ CLASS: _____ DATE: _____

Find the quotients.

$3\overline{)\$.33}$ = \$.11

$5\overline{)\$.75}$ $4\overline{)\$16}$ $6\overline{)\$.96}$

$4\overline{)\$.28}$ $8\overline{)\$.88}$ $6\overline{)\$.12}$

$2\overline{)\$.30}$ $7\overline{)\$.49}$ $9\overline{)\$.99}$

$8\overline{)\$56}$

P.O. 4.05.04.02

NAME: _____ CLASS: _____ DATE: _____

Divide.

$3\overline{)\$9.99}$ $7\overline{)\$9.70}$ $4\overline{)\$8.84}$

$8\overline{)\$6.40}$ $5\overline{)\$9.00}$ $9\overline{)\$9.18}$

$6\overline{)\$1.86}$ $2\overline{)\$7.64}$

P.O. 4.05,04.03

NAME: _____ CLASS: _____ DATE: _____

Round each value to the nearest dollar.

$3.96 ⟶ $4.00	$6.76 ⟶ _____
$8.93 ⟶ _____	$8.54 ⟶ _____
$5.49 ⟶ _____	$268 ⟶ _____
$1.62 ⟶ _____	$6.96 ⟶ _____
$3.80 ⟶ _____	$8.80 ⟶ _____
$2.46 ⟶ _____	$4.02 ⟶ _____

p.o. 4.05.04.04

NAME: _____ CLASS: _____ DATE: _____

Round the dividend to the nearest dollar.
Divide.
Match the quotient.

example: $7\overline{)\$7.38}$

answer : $7\overline{)\$7.00}$ → 1.00

$3\overline{)\$8.93}$

$2\overline{)\$9.87}$

$2\overline{)\$7.53}$

$5\overline{)\$9.86}$

$1\overline{)\$5.98}$

$4.00

$1.00

$2.00

$3.00

$6.00

$5.00

P.O. 4.05.04.05

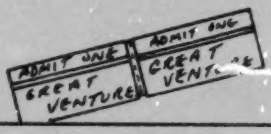
NAME: _____ CLASS: _____ DATE: _____

Solve.

1. Movie tickets cost $6.42 for three people. About how much will one ticket cost?

2. Jerry wants to buy a new checker set. The cost for two of them is $8.38. What is the cost of one set?

3. The admissiin to an amusement park is $4.84 for a family of 4. How much will one ticket cost?



4. The sale price for three model airplanes is $6.42. About how much will one model airplane cost?

5. James bought 3 ballons for $2.70. He will sell one ballon to his friend Sam. About how much will one ballon cost Sam?

6. Four books were on sale for $8.94. What is the price of one book?

P.O. 4.01.05.01

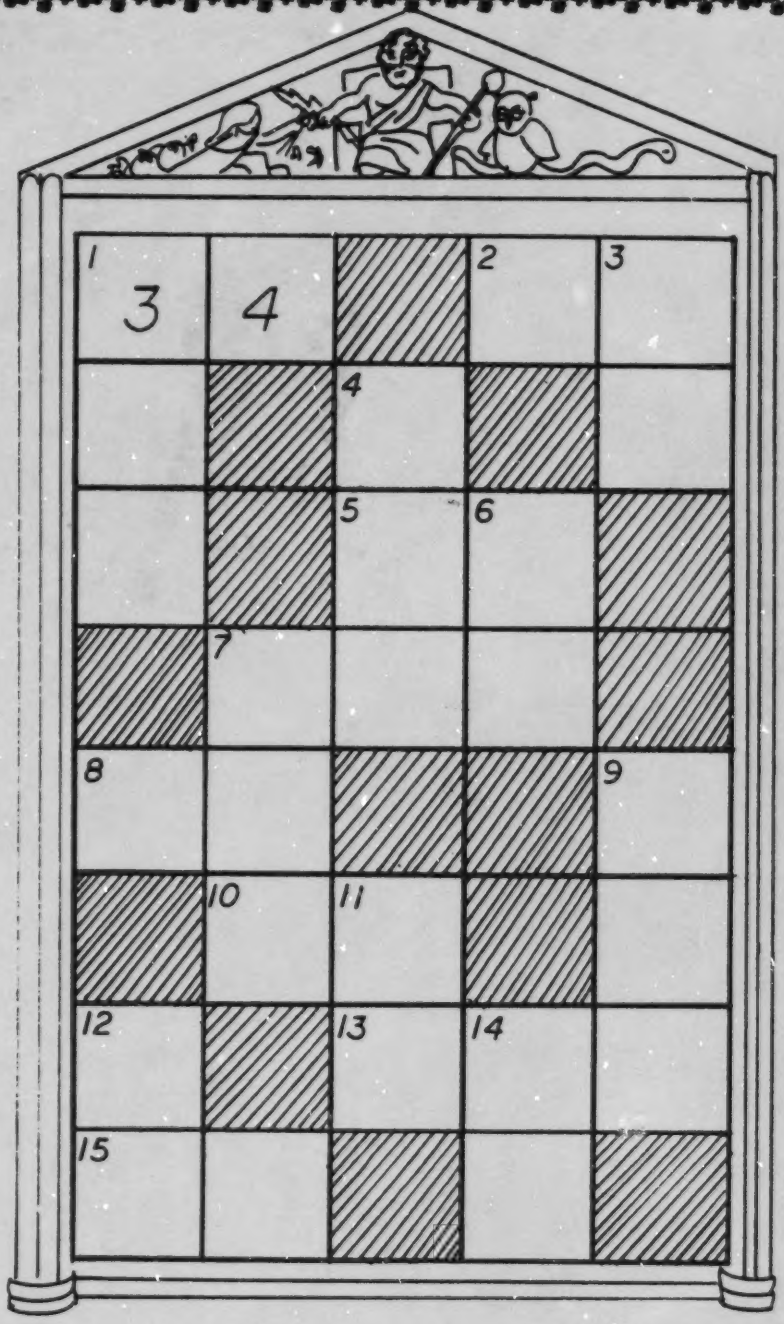
NAME:_____CLASS:_____DATE:_____

Connect the dots by going from the smallest to the largest Roman numeral.

P.O. 4.01.05.02

NAME:_____ CLASS:_____ DATE:_____

Rename Roman Numerals as Arabic Numerals.
Complete the cross number puzzle.



Across

1 XXXIV
2 LV
5 XXIX
7 CCCLXVIII
8 L
10 LXXXVII
12 IV
13 CCXCII
15 XC

Down

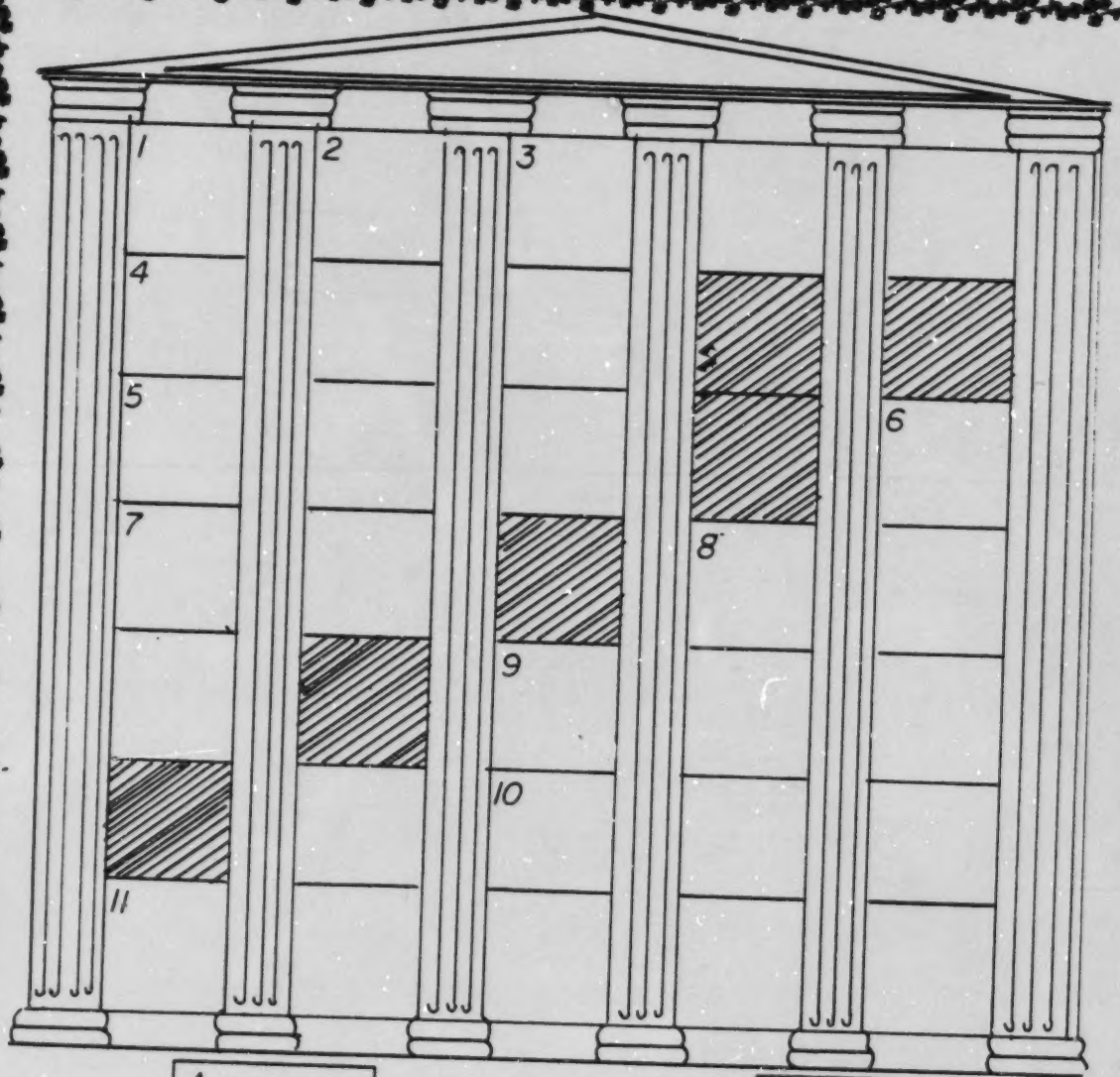
1 CCCIII
3 LI
4 CCXXVI
7 CCCVIII
9 CXCII
11 LXXII
12 XLIX
14 XCIX

144

P.O. 4.01.05.03

NAME: _____ CLASS: _____ DATE: _____

Rename the Arabic numerals as Roman numerals. Use the Roman numerals to complete the puzzle.



Across

1. 315
4. 91
5. 210
7. 6
8. 110
9. 70
10. 91
11. 214

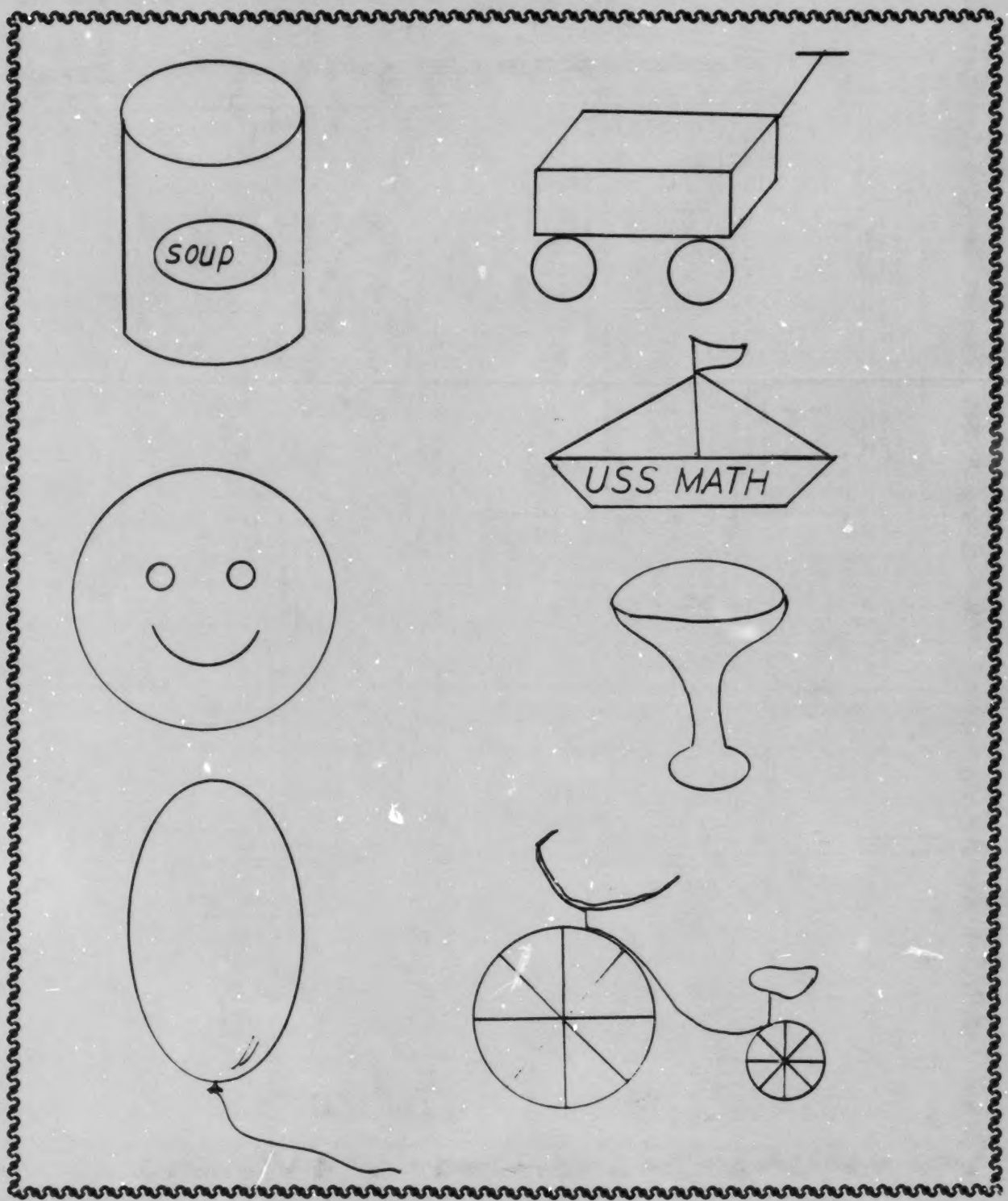
Down

1. 196
2. 301
3. 109
6. 74
8. 191
9. 70

P.O. 4.10.05.01

NAME: _____ CLASS: _____ DATE: _____

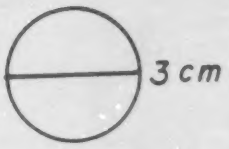
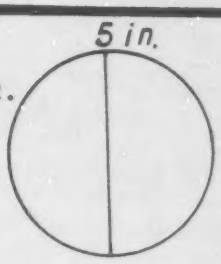
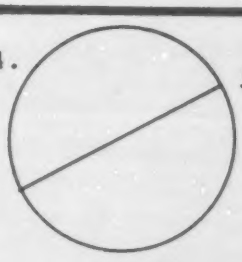
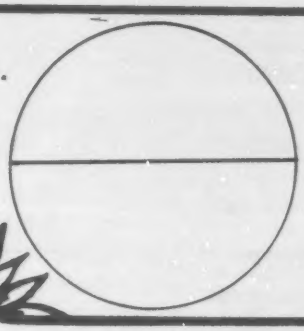
Color the objects that have a circumference.



P.O. 4.10.05.02

NAME:_____ CLASS:_____ DATE:_____

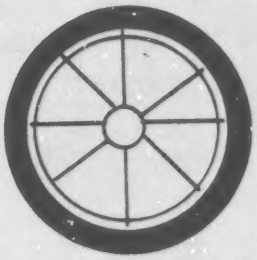
Use the diameter of each circle to find the appropriate circumference.

	Work Space
1. 	
2. 	
3.	
4. 	
5. 	

P.O. 4.10.05.03

NAME: _____ CLASS: _____ DATE: _____

Find the circumference of these objects.



Bicyle tire
radius 33cm

Circumference _____

Braclet
radius 3cm

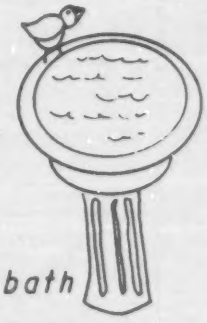
Circumference _____

Fan
radius 25cm

Circumference _____

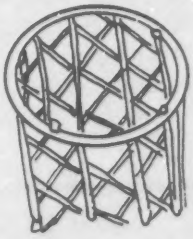
Ring
radius 1cm

Circumference _____



Bird bath
radius 40cm

Circumference _____



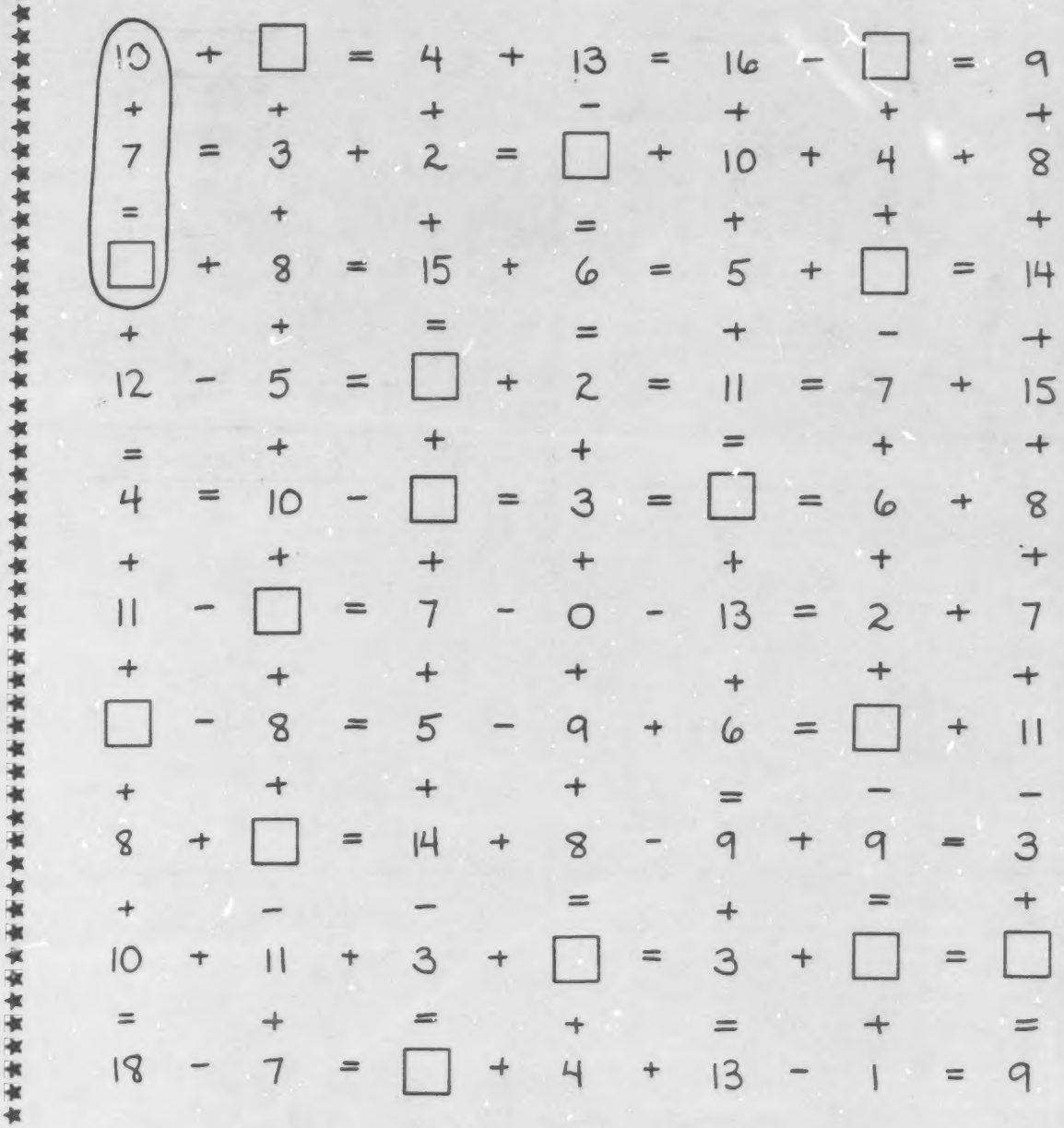
Basketball hoop
radius 23 cm

Circumference _____

P.O. 4.11.01.01

NAME: _____ CLASS: _____ DATE: _____

Circle each open sentence and find its solution.



P.O. 4.11.01.02

NAME: _____ CLASS: _____ DATE: _____

Maria is working in the computer factory. She needs help in putting the computers in order. The computers show their input and output. Label each computer with an open sentence to show its rule. The first one is done for you.

Rule $\square - 5 = \triangle$

□ Input	△ Output
12	7
15	10
19	14
20	15

Rule _____

□ Input	△ Output
10	2
25	5
40	8
15	3

Rule _____

□ Input	△ Output
13	22
43	52
21	30
36	45

Rule _____

□ Input	△ Output
3	30
27	270
19	190
44	440

Rule _____

□ Input	△ Output
49	7
35	5
7	1
14	2

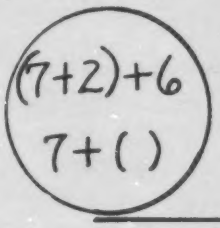
Rule _____

□ Input	△ Output
9	72
4	32
8	64
7	56

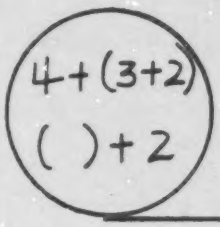
P.O. 4.02.02.01

NAME:_____ CLASS:_____ DATE:_____

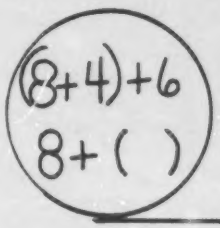
Get a strike. Knockdown the pin with the bowling ball by matching the addition example with the numbers that complete it, solve each example .



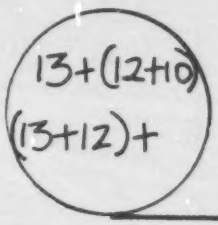
_____



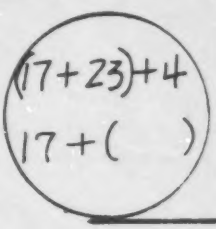
_____



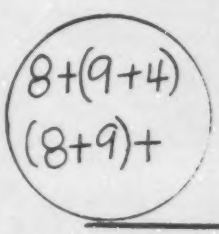
_____



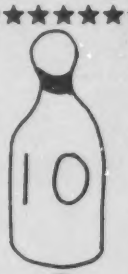
_____

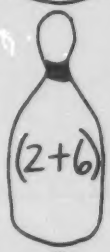


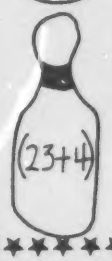
_____



_____



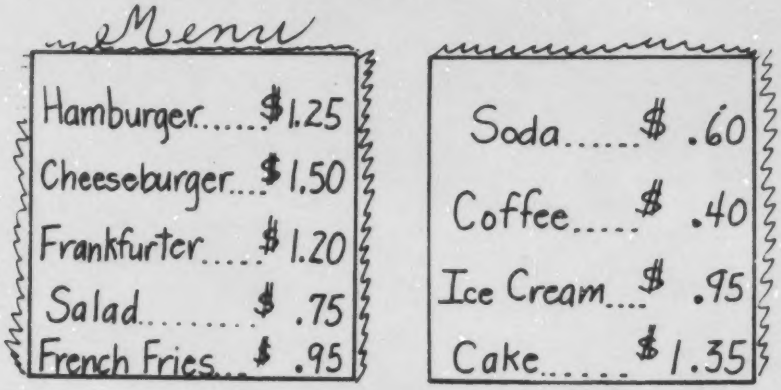




P.O. 4.02.02.02

NAME: _____ CLASS: _____ DATE: _____

Mr. and Mrs. Brown and their three children went to a restaurant for lunch. Use the menu to find the cost of each meal. Solve each problem in two ways using the associative property of addition.



		Method 1	Method 2
(1)	Mr. Brown ate salad, one hamburger and coffee. What was the cost of his lunch? _____		
(2)	Mrs. Brown ate a cheeseburger, french fries and soda. What was the cost of her lunch? _____		
(3)	Derrick ate 2 frankfurters and an ice-cream. What was the cost of his lunch? _____		
(4)	Timmy had salad, soda and cake. What was the cost of his lunch? _____		
(5)	Carol ate one frankfurter, salad and ice cream. What was the cost of her lunch? _____		
(6)	If you had gone to lunch with the Brown family what would you have eaten? Choose three items and find their total cost. _____		

P.O. 4.02.03.01

NAME: _____ CLASS: _____ DATE: _____

Add. Use the key to solve the riddle.

If 10 dragons are a clan and 20 dragons are a herd, what are 30 and 40?

E	N	S	T	V	Y
76,921	84,044	35,813	127,703	88,888	117,554

a) 12345 + 23468 = 35813

b) 60132 + 16789 = _____

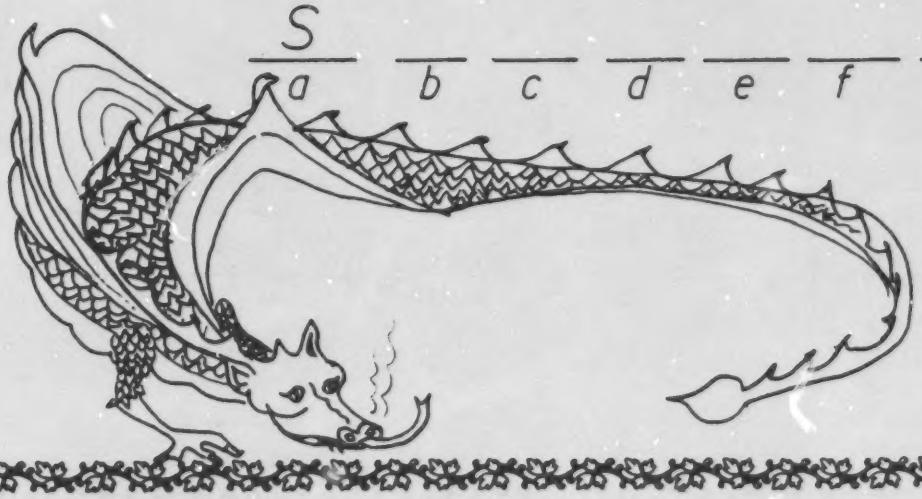
c) 33355 + 55533 = _____

d) 28450 + 48471 = _____

e) 35425 + 48619 = _____

f) 73628 + 54075 = _____

g) 42856 + 74698 = _____



S
a b c d e f g

P.O. 4.02.03.02

NAME: _____ CLASS: _____ DATE: _____

Add. Use the key to solve the riddle.

HOW IS A BASEBALL TEAM LIKE A PANCAKE?

THEY _____

_____.

11,561 12,311 14,811 42733 (B)	12,901 17,421 16,312	80,101 74,612 59,423	36,334 77,545 45,756
95,500 14,050 62,831	12,345 67,890 54,321	67,890 54,321 12,345	26,320 75,410 21,800
	58,261 26,342 45,343		

12311	26,342	36,334	45,756	54,321	76325
14811	58,261	45,756	36,334	67,890	81804
15611	45,343	77,545	77,545	12,345	97235

KEY

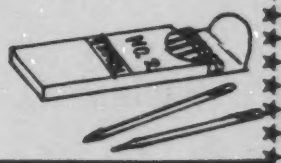
A-12994	H-159635	O-46634
B-42733	E-134556	R-255364
D-123530	N-172381	T-159635

P.O. 4.02.03.03

NAME:_____ CLASS:_____ DATE:_____

Solve each problem.

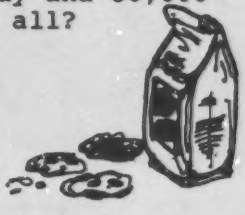
1. Our school district had three deliveries of pencils last year. 15,238 books were delivered in January, 22,465 in May and 18,562 in September. How many pencils were delivered last year?



2. Mr. and Mrs. Smith bought new furniture for their apartment. They bought a chair for $249.99, a bookcase for $117.50 and a dining table for $385.50. How much did they spend in all?

3. The museum had a special showing for only three days. On Monday 11281 people came to see the show, 16060 on Tuesday and 10420 on Wednesday. How many people saw the show?

4. The chocolate chocolate cookie company supplies many stores with cookies. They deliver three times a week. On Monday they delivered 20,000 cookies, 15,500 on Wednesday and 30,000 on Firday. How many cookies did they deliver in all?



P.O. 4.03.02.01

NAME: _____ CLASS: _____ DATE: _____

Solve the subtraction examples. Use the code to find the secret message.

(1) 573,109 − 56,107 = 17,002	(2) 94,949 − 12,843	(3) 47,796 − 28,615	(4) 89,242 − 68,100
(5) 94,949 − 15,843	(6) 78,343 − 56,211	(7) 82,777 − 14,555	(8) 77,284 − 56,142
(9) 78,343 − 59,211	(10) 82,777 − 12,555	(11) 79,353 − 58,211	(12) 76,972 − 58,441
(13) 83,777 − 13,555	(14) 92,935 − 17,115	(15) 53,388 − 15,178	

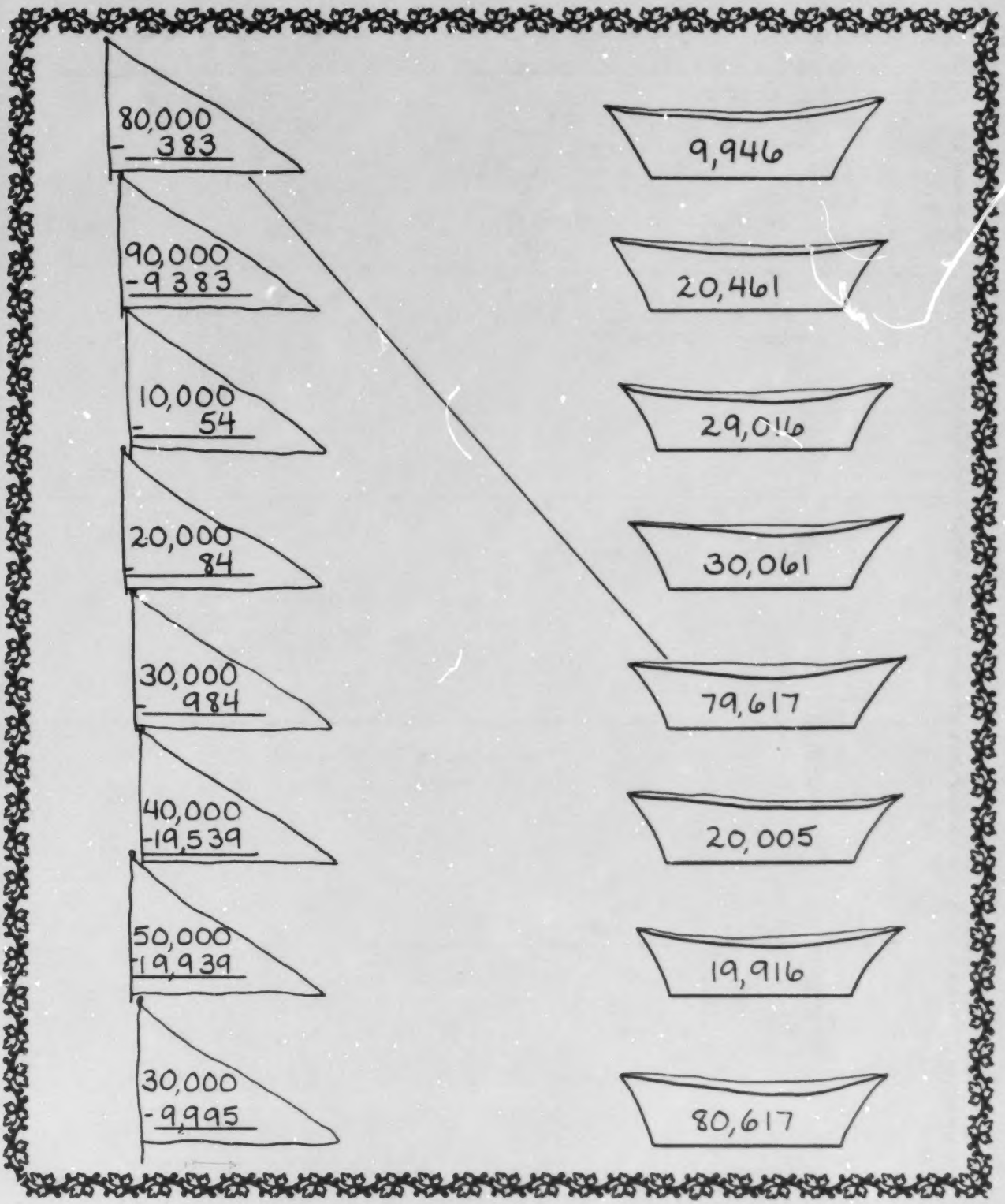
70,222	19,132	38,210	75,820	17,002	21,142	68,222	82,106	79,106	18,531	19,181	22,132
T	N	C	I	Y	A	F	O	R	S	U	E

Y								
1	2	3		4	5	6		
7	8	9	10	11	12	13	14	15

P.O. 4.03.02.02

NAME: _____ CLASS: _____ DATE: _____

Put the sail on the boat by matching the subtraction example to its answer.



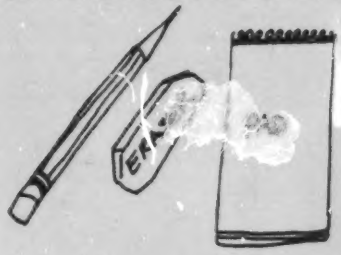
P.O. 4.03.02.03

NAME:_____ CLASS:_____ DATE:_____

Solve each word problem using the problem solving techniques.

Problem Solving Techniques

1. Read the problem.
2. Guesstimate when practical.
3. Determine the operation.
4. Round each number in the problem.
5. Estimate the answer.
6. Do the actual computations.
7. Is the answer close to the estimate?



1. A police force has 18,630 numbers. If 3,557 are women. how many members of the police force are nem?

2. Jane's mother has $560.00. She bought a coat for $179.99 How much money did she have left?

3. In 1970, there were 75,210 teachers in New York City. In 1980, there were 57,384 teachers. How many more teachers were there in 1970 than 1980?

4. Ebony Magazine sold 23,680 copies last month. Life sold 18,497 copies. How many more copies did Ebony sell than life?

P.O. 4.04.02.01

NAME: _____ CLASS: _____ DATE: _____

Kim's dog chewed up part of her homework. Help her get an A by filling in the missing numbers.

P.S. 327 Kim Brown

4-121 Jan 24, 1983

Solve these problems using the associative property of multiplication.

① $6 \times 40 = 6 \times (4 \times \square)$
$= (6 \times \square) \times \square$
$= 24 \times \square$
$= \square$

② $8 \times 50 = \square \times (5 \times \square)$
$= (8 \times \square) \times 10$
$= \square \times \square$
$= \square$

③ $4 \times 5 \times 4 = 4 \times (\square \times \square)$
$= \square \times 20$
$= \square$

④ $8 \times 5 \times 2 = (8 \times \square) \times 2$
$= \square \times \square$
$= \square$

⑤ $7 \times 30 = 7 \times (\square \times 10)$
$= (\square \times 3) \times 10$
$= \square \times \square$
$= \square$

⑥ $9 \times 30 = \square \times (\square \times 10)$
$= (9 \times \square) \times 10$
$= \square \times \square$
$= \square$

⑦ $7 \times 9 \times 6 = 7 \times (\square \times 6)$
$= 7 \times \square$
$= \square$

⑧ $8 \times 50 = \square \times (5 \times 10)$
$= \square \times \square$
$= \square$

P.O. 4.04.02.02

NAME:_____CLASS:_____DATE:_____

Use the distributive property of multiplication to solve each example.

$34 \times 31 = (34 \times 30) + (34 \times 1)$ $= 1020 + 34$ $= 1054$	$53 \times 54 =$
$83 \times 24 =$	$18 \times 24 =$
$75 \times 63 =$	$42 \times 46 =$

P.O. 4.04.03.01

NAME: _____ CLASS: _____ DATE: _____

Solve the problem. Use the secret code to find the message.

20 × 2 =	300 × 3 =	4000 × 4 =	50,000 × 5 =
60 × 6 =	700 × 7 =	8000 × 8 =	10 × 4 =
90,000 × 9 =	200 × 8 =	3000 × 7 =	40,000 × 6 =

4,900	810,000	250,000	360	40
N	B	I	C	M

64,000	16,000	900	240,000	21,000	1,600
U	G	A	S	R	E

1	2	3	4	5

6	7	8	9	10	11	12

P.O. 4.04.03.02

NAME: _____ CLASS: _____ DATE: _____

Solve the problems. Draw a straight line from the problem to the correct product. The line will cross a letter. Place the letters in the numbered boxes to find out what you are.

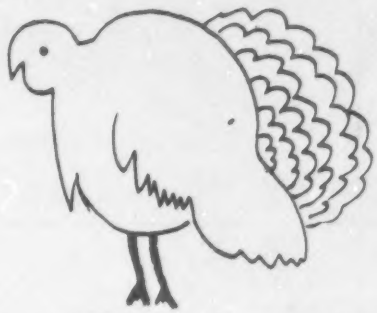
21 x 3	8,844 T
324 x 3	86 E
2,211 x 4	63 M
223 x 3	848 I
33 x 3	972 A
43 x 2	68 S
1243 x 2	669 H
212 x 4	9636 U
3212 x 3	99 G
34 x 2	2486 N

1 2 3 4 5 6 7 8 9 10

P.O. 4.04.03.03

NAME: _____ CLASS: _____ DATE: _____

1. Find each product.
2. Use the decoder to solve the riddle.



What country reminds you of Thanksgiving?

_____

43 × 7 = _____ R	253 × 6 = _____ Y	2467 × 5 = _____ K
875 × 3 = _____ E	9768 × 2 = _____ T	638 × 4 = _____ U

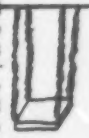
Decoder

19,536	2,552	301	12,335	2,625	1,518

P.O. 4.04.03.04

NAME:_____ CLASS:_____ DATE:_____

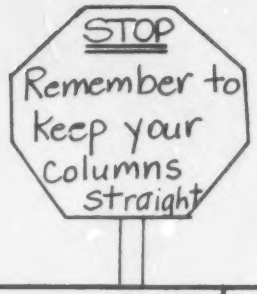
Solve each problem in the workspace.

	Workspace
1. During a candy sale, 9 students each collected $45.00. How much did they collect in all?	
 2. Seven new swings for a playground each cost $62. What was the total cost?	
2 +2 3. William answered 27 questions on each part of a math test. If the test had 3 parts, how many questions did William answer?	
4. Two children each delivered 130 newspapers. How many did they both deliver?	
5. A school serves 536 lunches each day. How many lunches are served in a 5 day week?	
6. A baseball stadium has 724 rows of reserved seats. If each row has 8 seats, how many reserved seats are there?	

P.O. 4.05.05.01

NAME: _____ CLASS: _____ DATE: _____

Solve by using long division. Check using multiplication.

$5\overline{)1055}$ = 211 1000 55 50 5 5 0	Check 211 x 5 1055		
$3\overline{)3896}$	Check	$2\overline{)128}$	Check
$8\overline{)6488}$	Check	$6\overline{)9466}$	Check
$7\overline{)7764}$	Check	$4\overline{)5972}$	Check

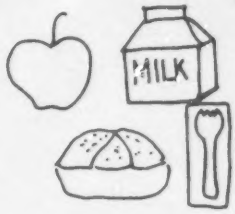
P.O. 4.05.05.02

NAME:_____ CLASS:_____ DATE:_____

Solve each problem.

1.

A parking lot holds 848 cars. There are 4 cars in a row. How many rows of cars are there?

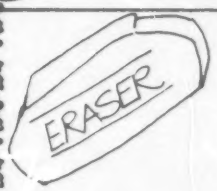
2. 

A school serves 1640 lunches a day. There are 2 lunch hours each day. How many lunches are served each lunch hour?

3.

P.S. 729 bought 3784 books for its students. Each student received 7 books.
a. How many students received books?
b. How many books were left over?

4. A group planned to hike up a trail in 5 hours. The trail was 8100 meters long. About how many meters per hour would they climb?

5. 

Stanley wants to buy 30 erasers.
The erasers cost 12¢ each.
Stanley has $3.00. Does he have enough money to buy the erasers?

166

P.O. 4.10.06.01

NAME:_____ CLASS:_____ DATE:_____

I. Answer the following questions.

II. Read each thermometer. Indicate if the temperature is above the freezing point.

1. What temperature Fahrenheit does water freeze? _____

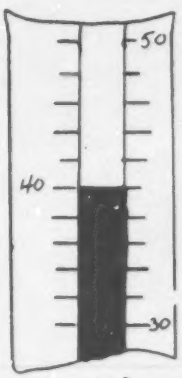
2. At what temperature Fahrenheit does water boil? _____

3. John's temperature is 103°F. Is John's body temperature normal or does he have a fever? _____

4. The temperature is 10 F. Would you ice skate or water ski? _____

5. The temperature is 80° F. Will it snow or rain? _____

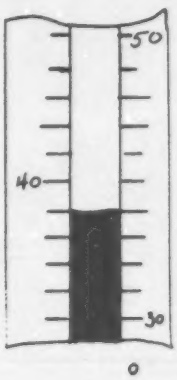
e.g.



40°

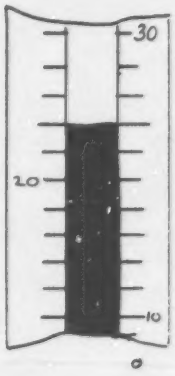
above the freezing pt.

6.



_____

7.



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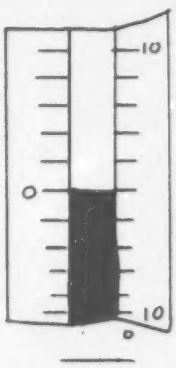
8.



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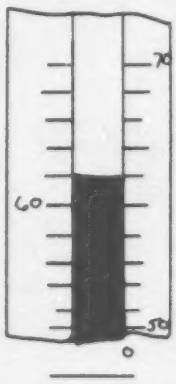
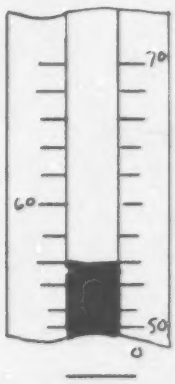
9.



_____

10.



_____

P.O. 4.10.06.02

NAME: _____ CLASS: _____ DATE: _____

Fill in the blank with Hot or Cold.

1 The temperature is 40°C outside.

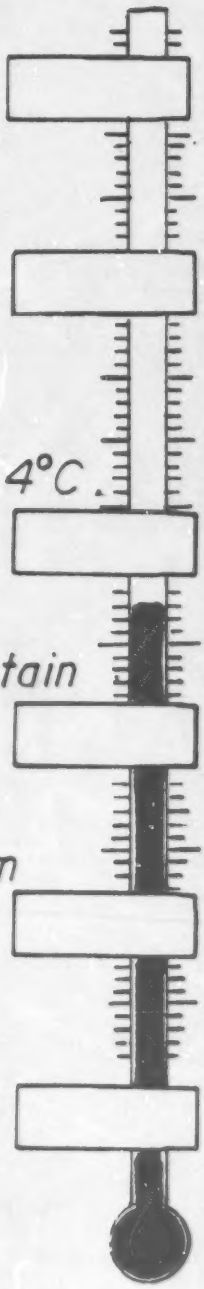
2 The temperature in a house is 10°C.

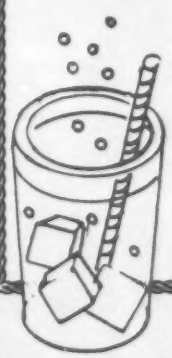
3 The temperature of a cup of coffee is 4°C.

4 The temperature at the top of a mountain is 8°C.

5 The temperature at a baseball stadium is -8°C.

6 The temperature outside is 9°C.
Will the skating pond freeze?





P.O. 4.08.01.01

NAME: _____ CLASS: _____ DATE: _____

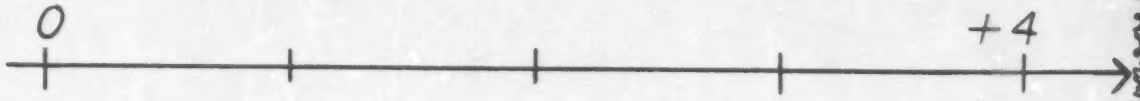
WRITE THE SIGNED NUMBER TO SHOW...

The temperature is 16 above zero. _____

The stock market went up 32 points. _____

I made a deposit of $23.00 _____

COMPLETE THE NUMBER LINE



WRITE THE SIGNED NUMBER

4 greater than zero. _____

3 steps to the right of zero. _____

2 greater than zero.

5 steps to the right of zero. _____

1 greater than zero. _____

9 steps to the right of zero. _____

25 greater than zero. _____

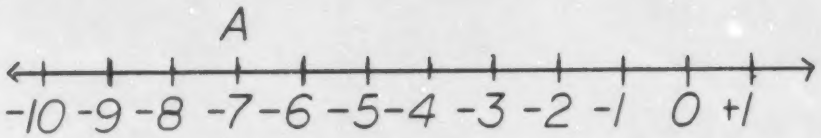
100 steps to the right of zero. _____

238 greater than zero. _____

P.O. 4.08.01.02

NAME:_____ CLASS:_____ DATE:_____

Place the letters on the number line.



Put A at −7

Put E at -9 and -3

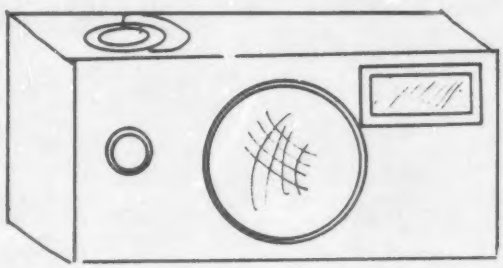
Put G at −8

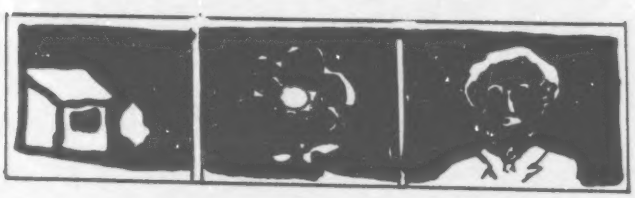
Put I at -5

Put N at -10

Put T at −6

Put V at −4





P.O. 4.08.01.03

NAME:_____CLASS:_____DATE:_____

Write the positive or negative number.

The stock market went down 7 points. ____

The temperature is 10^{o} above 0. ____

The team gained 2 yards on the first down. ____

Mary gained 7 pounds on her diet. ____

I earned $26.00. ____

I lost 36.00. ____

The team lost 7 yards on the next down. ____

We live 200 feet above sea level. ____

John lost ten pounds. ____

The temperature is 20^{o} above 0. ____

The government spent $3000 more dollars than it earned ____

The club showed a profit of $700 from the cookie sale. ____

The lake is 300 ft below sea level. ____

The temperature is 8^{o} below zero. ____

The stock market went up 2 points. ____

P.O. 4.08.01.04

NAME: _____ CLASS: _____ DATE: _____

Use the chart to answer the questions.
Use signed numbers to fill in the blanks.

DIET CHART

	ORIGINAL WEIGHT	WEEK 1	WEEK 2	WEEK 3
John	75	- 3	0	+ 1
Barry	72	- 2	- 4	+ 2
Henry	77	- 2	+ 3	- 4

1 Did John lose or gain weight in week 1?
How much? _____

2 Did John lose or gain weight in week 2?
How much? _____

3 Did Barry lose or gain weight in week 1?
How much? _____

4 Did Henry lose or gain weight in week 2?
How much? _____

5 What was the total weight loss
In week 1? _____
In week 2? _____
In week 3? _____

P.O. 4.12.03.01

NAME: _____ CLASS: _____ DATE: _____

Show all the possible arrangements.

P. . 4.12.03.02

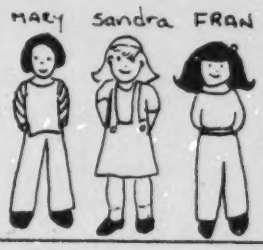
NAME:_____ CLASS:_____ DATE:_____

Solve each problem.

A) Guy had 3 pair of socks in his dresser drawer. He placed them in the drawer this way: brown, blue, green. How many other ways can he place the socks?

B) Sylvia arranged a cookie, brownie, a cupcake in a row at the cake sale. How else might she place them?

C) Mary is first on line, Sandra is second, Fran is third. Rearrange the girls in line as many ways as you can.



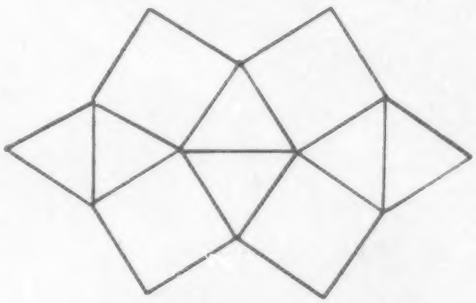
D) The red car was parked in front, than the black car then the green car. How can you place these cars so that the red won't always be in front?

E) This spinner has 4 numbers. Can you rearrange the numbers. Can you re-arrange the numbers on other spinners?

P.O. 4.13.04.01

NAME: _____ CLASS: _____ DATE: _____

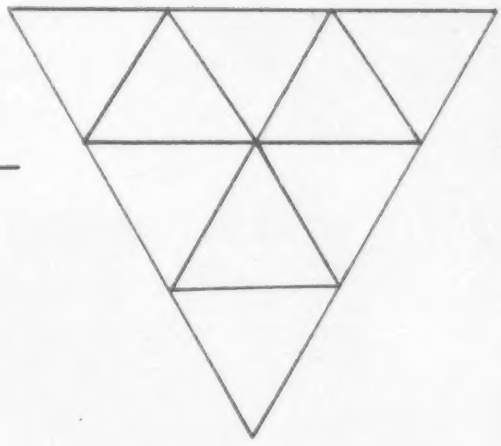
Count the number of □ and △ in each figure. Try to extend each figure by adding □'s and △'s. When you're finished, you may color the figures.

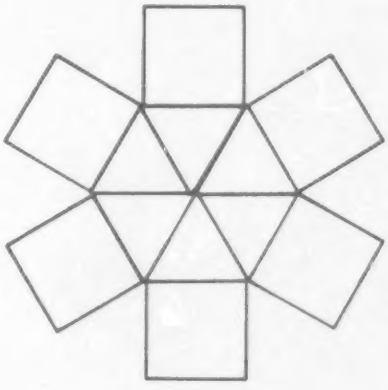


No. of △ _____

No. of □ _____

No. of △ _____





No. of □ _____

No. of △ _____

P.O. 4.13.04.02

NAME: _____ CLASS: _____ DATE: _____

Using the calendar, write patterns.
Complete the sequence filling in the blanks.

AUGUST 1982

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

1. List all the dates for Sunday in this month.

   answer: 1, 8, 15, 22, 29

2. Write the next four dates that would appear if there were no limits to the days in this month.

   1, 8, 15, 22, 29, ___, ___, ___, ___.

3. List all the Saturdays in the month.

   answer: _____.

4. What rule could you apply to the dates found on Saturday?

	Rule
7	?
14	?
21	?
28	?
	?

Complete the patterns using the calendar.

5. 1, 9, 17, 25, 33, 41

6. 5, 11, 17, ___, ___, ___.

7. 7, 13, 19, ___, ___, ___.

8. 6, 13, 20, ___, ___, ___.

9. 30, 24, ___, ___, ___.

P.O. 4.13.04.03

NAME: _____ CLASS: _____ DATE: _____

Fill in the chart.
Use the chart to answer the questions.

X	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0						
1	0	1	2							
2	0	2		6						
3	0	3						21		
4	0									
5	0		10							
6	0									54
7	0	7								
8	0	8		24						
9	0	9	18							81

1. Complete the chart by filling in the blank boxes.
2. List the numerals for the vertical pattern of the 1's column.

_____

3. List the numerals for the horizontal pattern of the row that is marked 3. _____
4. What pattern do you see for each vertical column?

_____

5. What pattern do you see for each horizontal row?

_____

6. Starting at zero, write the pattern for the diagonal of the chart.

_____

7. Starting at nine, write the pattern for the diagonal of the chart.

_____

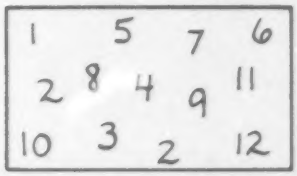
8. What pattern do you see when you look at the diagonal beginning at nine? _____

P.O. 4.06.06.01

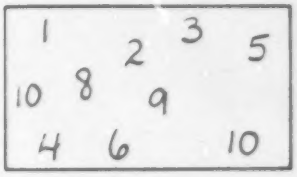
NAME: _____ CLASS: _____ DATE: _____

Circle the factors for each number.
Complete the table.

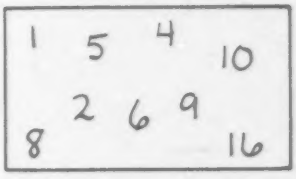
12



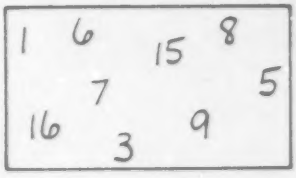
10



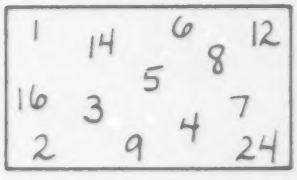
16



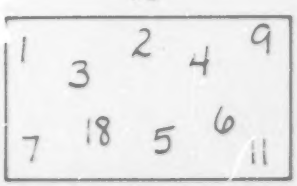
15



24



18



Number	Factors
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

P.O. 4.06.06.02

NAME: _____ CLASS: _____ DATE: _____

Write the set of factors for each number.
Write the greatest common factor.

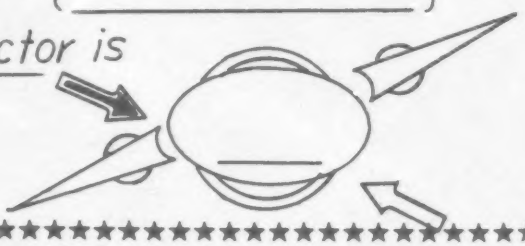
6 14 20

The set of factors for 6 = { _____ }

The set of factors for 14 = { _____ }

The set of factors for 20 = { _____ }

The Greatest Common Factor is _____



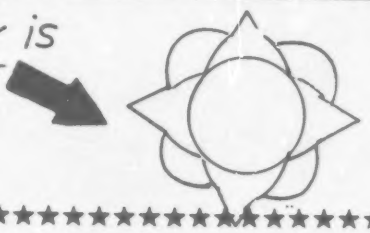
20 16 32

The set of factors for 20 = { _____ }

The set of factors for 16 = { _____ }

The set of factors for 32 = { _____ }

The Greatest Common Factor is _____



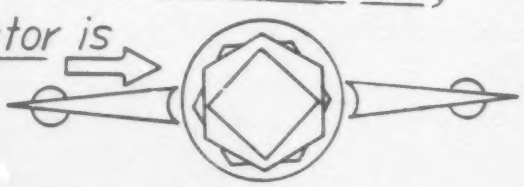
48 32 40

The set of factors for 48 = { _____ }

The set of factors for 32 = { _____ }

The set of factors for 40 = { _____ }

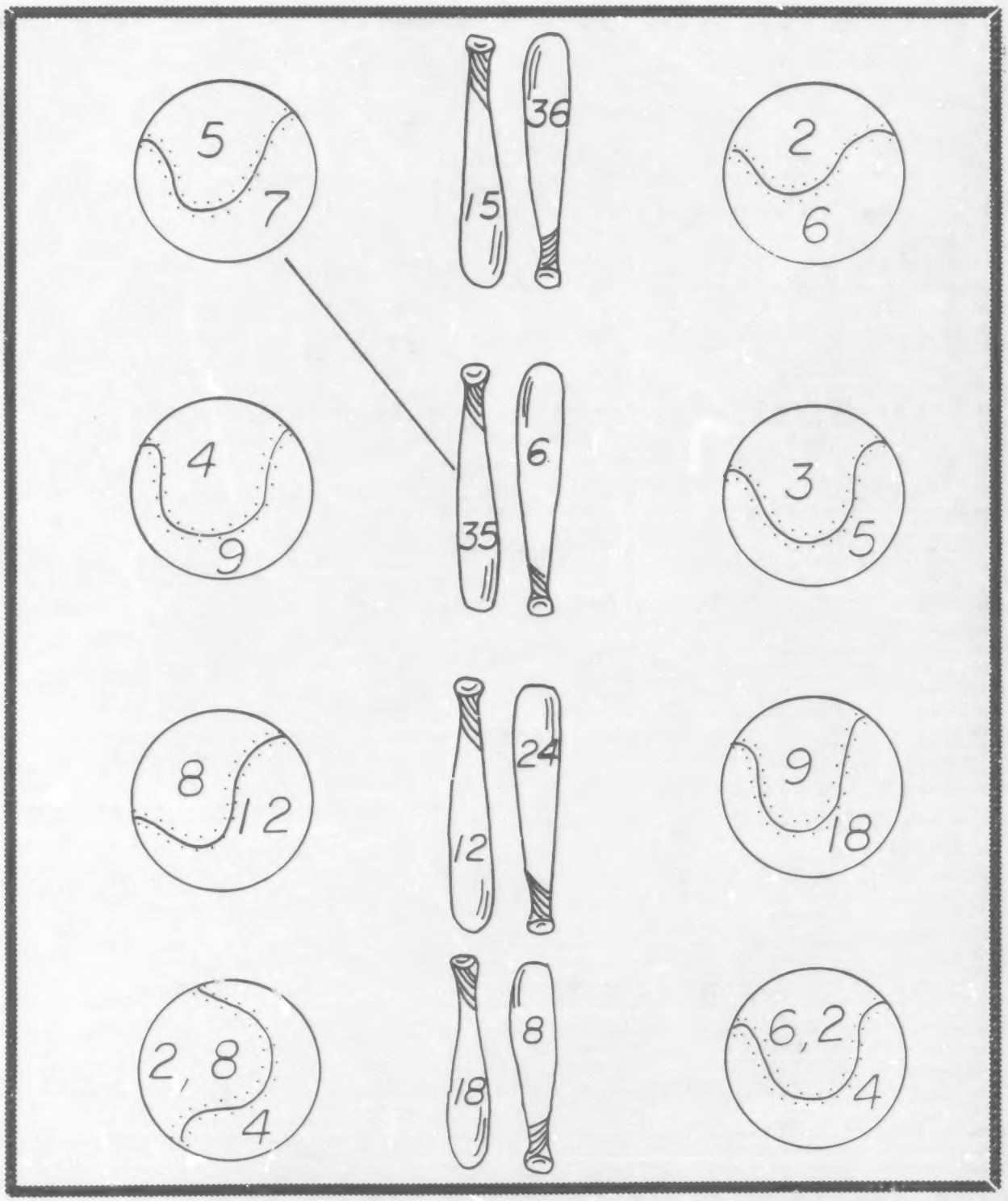
The Greatest Common Factor is _____



P.O. 4.06.06.03

NAME:_____CLASS:_____DATE:_____

Match the least common multiple on the bat with the matching baseball.



P.O. 4.10.07.01

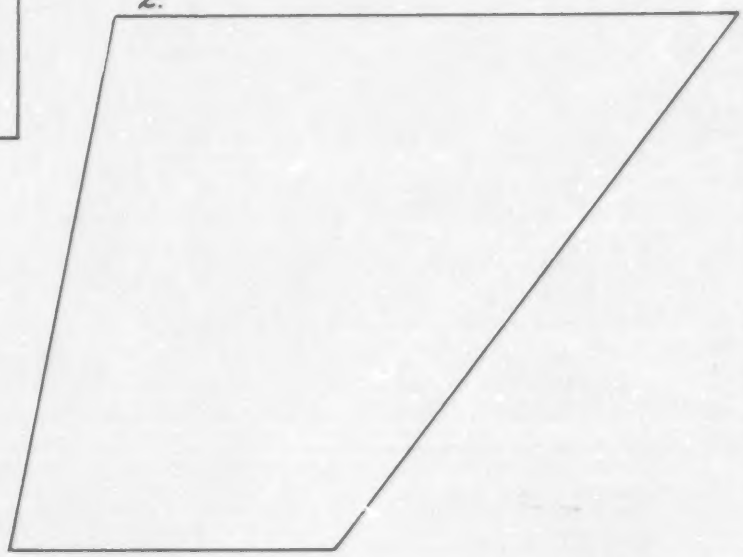
NAME: _____ CLASS: _____ DATE: _____

How many pencils cover each picture?
Check your answers with your neighbor and fill in the chart.

1.

Picture	My Answer	My Neighbors Answer
1		
2		
3		

2.

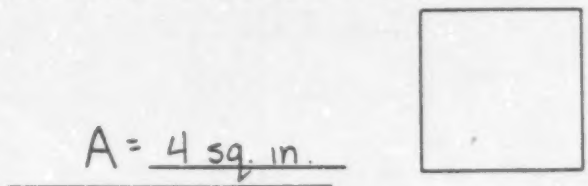


3.

P.O. 4.10.07.02

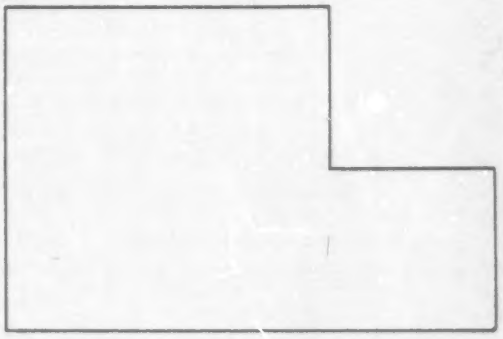
NAME: _____ CLASS: _____ DATE: _____

Use the square inch provided to measure the area of each figure.

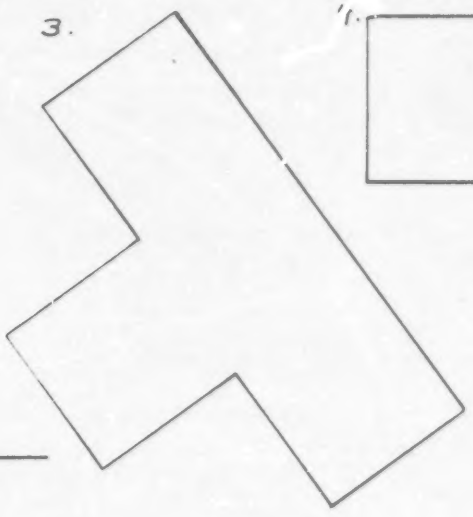


1. A = 4 sq. in.

2. A = _____



3.



A = _____

4.

A = _____

5.

A = _____

P.O. 4.10.07.03

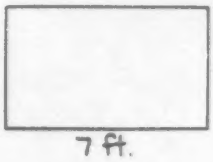
NAME: _____ CLASS: _____ DATE: _____

Find the area of each rectangle.
Complete the table for rectangles.

1

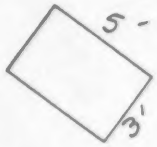
A = 36 sq in.

2.



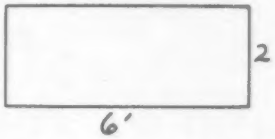
A = _____

3.



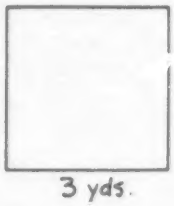
A = _____

4.



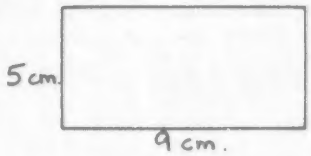
A = _____

5.



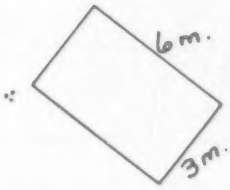
A = _____

6.



A = _____

7.

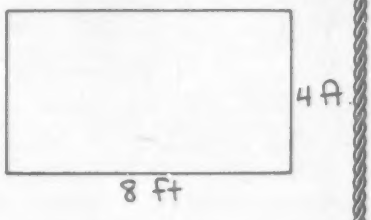


A = _____

8.

A = _____

9.



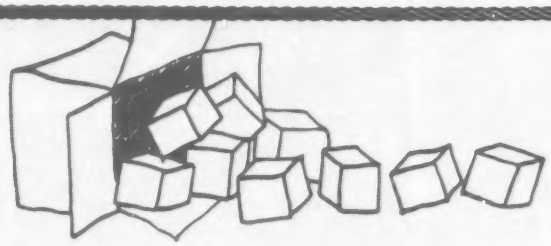
A = _____

Length	6 in.	2 ft.	9 cm.	8 yds.		7 in.
Width	9 in.	6 ft.	3 cm		5 miles	
Area	54 sq in.			24 sq. yds	40 sq miles	35 sq. in.

P.O. 4.10.08.01.-02

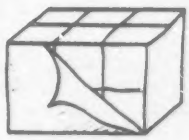
NAME:_____ CLASS:_____ DATE:_____

Give the volume of each rectangular prism filled with cubic centimeter blocks.

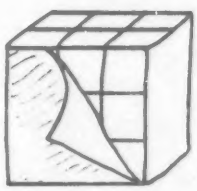


1.

_____

2. 

_____

3. 

_____

4. 4 layers of blocks
2 blocks width
3 blocks length

_____

5. 5 layers of blocks
3 blocks width
3 blocks length

_____

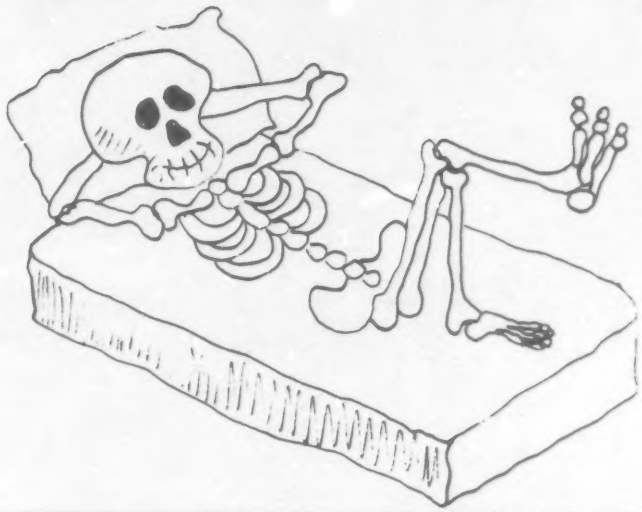
6. 8 layers of blocks
2 blocks length
2 blocks width

_____

P.O. 4.07.03.01

NAME: _____ CLASS: _____ DATE: _____

Add. Use the key to solve the riddle.



What do you call a skeleton laying in bed?

5.07 + 4.12 9.19 L	0.4 0.37 0.19 +0.02	0.03 + 2.15	7.63 +8.49
0.6 0.12 0.28 + 1.30	0.16 +0.2	1.06 1.10 3.22 + 4.35	0.5 + 1.5
3.6 4.16 1.01 + 2.24			

Key

A	B	E	L	N	O	S	Y	Z
0.98	2.30	2	9.19	9.73	0.36	11.01	16.12	2.18

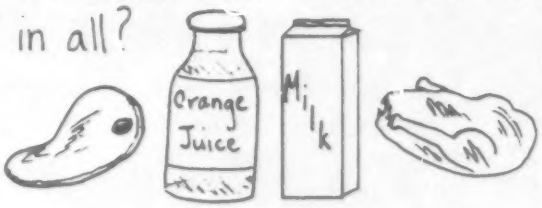
P.O. ~~4.07.03.02~~

NAME: _____ CLASS: _____ DATE: _____

Solve the problems.

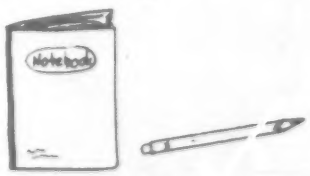
Arthur bought 2.19 kg of swiss cheese and 1.08 kg of American cheese. How many kgs. did he buy in all?

Roz spent ¢1.76 for juice, ¢2.07 for chicken, ¢3.85 for meat and ¢.62 for milk. How much did she spend in all?



Jose and his family drove 24.5 kilometers on Tues. and 75.12 kilometers on Wed. How many kilometers did they drive in all?

John bought a notebook for ¢1.29, a pencil for ¢.29 and a bookbag for ¢5.75. How much did he pend in all?



P.O. 4.07.04.01

NAME:_____ CLASS:_____ DATE:_____

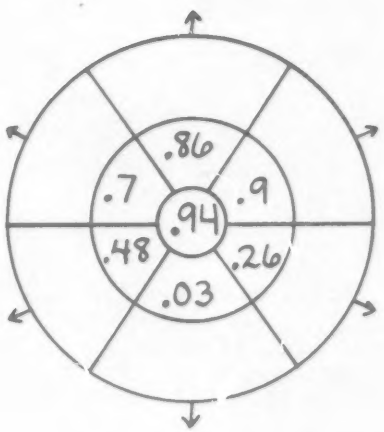
A - Subtract
B - Complete the subtraction wheel by finding the difference between the center decimal and the decimal on the same spoke.

A.

36	.36	72	.72
- 12	- .12	- 36	- .36
50	.5	78	.78
- 24	- .24	- 50	- .5

B.

.94
- .86



P.O. 4.07.04.02

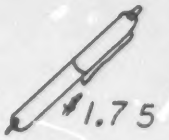
NAME:_____ CLASS:_____ DATE:_____

Solve.

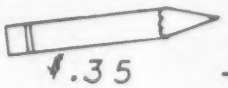
1. Janice had .$89. She spent $.75 . Now she has _____.

2. $.89 was in Joe's bank. He took out $.24
Now he has _____.

3. Joel had $3.25. He purchased this pen. Now he has _____.



4. How much change will you get from a $5.00 bill?



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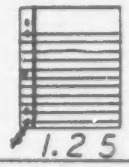
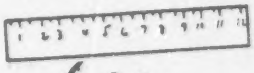


_____



_____

5. John had $.79. He purchased crayons for .31.
How much money is left?

6. Joan had $6.79. She bought a shirt for $2.25. How much money is left?

P.O. 4.07.05.01

NAME: _____ CLASS: _____ DATE: _____

Multiply. Use the key to solve the riddle.

What is another name for a parrot?

A W _ _ _ _ _ _ _ _ _
1 2 3 4 5 6 7 8 9 10

①	②	③	④	⑤
.6 × .4 = .24 W	1.7 × .6	1.6 × .7	.9 × .3	7.4 × .2
⑥	⑦	⑧	⑨	⑩
7.1 × .8	1.2 × .8	5.6 × .2	.3 × .9	3.7 × .4

Key

B	D	I	O	R	W	Y
5.68	.27	.96	1.02	1.12	.24	1.48

P.O. 4.07.05.02

NAME:_____ CLASS:_____ DATE:_____

Tell the operation needed to solve each problem. ⊕ ⊖ ⊗
Circle the correct answer.

Plant was 9.7 inches tall. Now it is 10.3 inches tall. How much has it grown?
6.inch .6 inch 20.0 inch

Jim swims a mile in 15.2 min. Mary swims a mile in 18.42 min. Jim is how much faster than Mary?
3.22 min 32.2 min 33.62 min

Mary ate 2.1 pints of ice cream. Sally ate .09 pints and Carol ate 3.4 pints. How much ice cream did they eat together?
6.4 pints 5.5 pints 5.9 pints

Each bow uses 1.12 ft. of ribbon. How much ribbon do I need to make 7 bows?
8.12 ft 5.28 ft. 7.84 ft.

How many yard squares of carpet are needed to cover a floor. 3.3 yards wide and 4.25 yards long?
14.025 yd 12.752 yd. 7.55 yd.

I bought a gift for $10.38 and food for $205.69. How much did I spend?
$195.31 $500. $216.07

P.O. 4.01.06.01

NAME:_____ CLASS:_____ DATE:_____

Complete the sequences.

1 4 +

Help Mr. Math find the right number.

/ 3 × 7

2, 4, 3, 6, 5, ___, ___

×2 −1 ×2 −1 ×2 −1

3, 2, 5, 4, 7, ___, ___

1, 3, 6, 5, 7, 10, 9, ___, ___, ___, ___

Teaser:

2, 4, 7, 6, 12, 15 ___, ___, ___, ___, ___, ___

Make up your own sequence.

P.O. 4.01.06.02

NAME: _____ CLASS: _____ DATE: _____

Fill in the columns.

	Triangular Numbers	Dot Shapes	Addends
①	1	•	1
②	3	∴	1+2
③	6		
④	10		
⑤	15		
⑥	21		
⑦	28		
⑧	36		
⑨	45		

P.O. 4.01.06.03

NAME:_____ CLASS:_____ DATE:_____

Draw an array that forms a square.
Find the factors.

9 3 × 3	25
4	36
49	16
64	81

P.O. 4.01.07.01

NAME: _____ CLASS: _____ DATE: _____

I. Write the place value of the underlined digit.
II. Build the number.
III. Write your own number.

I Write the place value of the underlined digit

1) 7,652,321 _____

2) 3,586,423 _____

3) 6,954,827 _____

4) 8,623,171 _____

5) 1,465,870 _____

II Build the number

Millions			Thousands			Ones		
H	T	O	H	T	O	H	T	O

_____

Write the number here.

7 in the ones' place
4 in the ten thousands' place
8 in the one thousands' place
6 in the hundred thousands' place
5 in the hundreds' place
2 in the tens' place
9 in the millions' place

III Write your own number.

Millions			Thousands			Ones		
H	T	O	H	T	O	H	T	O

_____

Write the number here

__ in the hundreds' place
__ in the tens' place
__ in the millions' place
__ in the thousands place
__ in the hundred thousands' place
__ in the ten thousands place
__ in the ones' place

P.O. 4.01.07.02

NAME: _____ CLASS: _____ DATE: _____

I. Write the value of each digit in the value chart.
II. Write each standard number as an expanded number
III. Match the numbers to the words.

I

MILLIONS			THOUSANDS			ONES		
H	T	O	H	T	O	H	T	O
		3	2	7	4	4	3	1

The digit 3 is in the million's place. It's value is 3,000,000.

II

1. 4,000,000 _____
2. 4,531,000 _____
3. 4,000,235 _____
4. 5,694,210 _____
5. 2,812,024 _____

III

1. 8,080,080	a) eight million, eight
2. 8,888,000	b) eight million, eight hundred thousand, eight hundred
3. 8,000,008	c) eight million, eighty thousand, eighty
4. 8,800,800	d) eight million, eight hundred eighty eight thousand

P.O. 4.01.07.03

NAME: _____ CLASS: _____ DATE: _____

Match.
Write the letter that goes with the number in the riddle box.

What is an astronaut's favorite time of day?

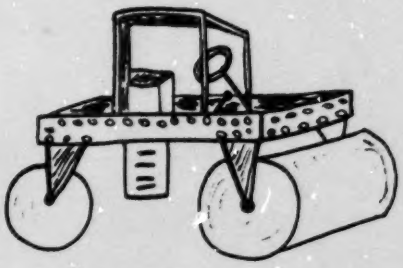
① 100,987,654	A	FOUR HUNDRED SIXTY THREE MILLION, FIVE HUNDRED SEVENTY TWO THOUSAND, ONE HUNDRED
② 463,572,100	C	FIFTY TWO MILLION, THREE HUNDRED TWENTY THOUSAND, SIX HUNDRED
③ 88,888,888	E	ONE MILLION ONE THOUSAND ONE
④ 4,003,020	H	SIX MILLION SEVEN HUNDRED SEVENTY SEVEN THOUSAND FIVE HUNDRED FIFTY FIVE
⑤ 52,320,600	I	FORTY THREE MILLION, FIVE HUNDRED SIXTY SEVEN THOUSAND, EIGHT HUNDRED NINETY
⑥ 6,777,555	L	ONE HUNDRED MILLION, NINE HUNDRED EIGHTY SEVEN THOUSAND, SIX HUNDRED FIFTY FOUR
⑦ 1,900,009	M	THIRTY TWO MILLION, ONE HUNDRED NINETY EIGHT THOUSAND SEVEN HUNDRED SIXTY FIVE
⑧ 43,567,890	N	FOUR MILLION THREE THOUSAND TWENTY
⑨ 32,198,765	T	ONE MILLION NINE HUNDRED THOUSAND NINE
⑩ 1,001,001	U	EIGHTY EIGHT MILLION EIGHT HUNDRED EIGHTY EIGHT THOUSAND EIGHT HUNDRED EIGHTY EIGHT

1	2	3	4	5	6	7	8	9	10
L									

P.O. 4.06.07.01

NAME: _____ CLASS: _____ DATE: _____

Match the common denominator. Write the letter that matches the question in the secret answer box to find the answer to the riddle.



Why did the farmer run a steamroller across the field?

Because he wanted to raise.....

1)	$\frac{1}{2}$	$\frac{1}{4}$
2)	$\frac{3}{8}$	$\frac{1}{4}$
3)	$\frac{5}{6}$	$\frac{1}{3}$
4)	$\frac{1}{6}$	$\frac{1}{3}$
5)	$\frac{1}{12}$	$\frac{1}{6}$
6)	$\frac{1}{5}$	$\frac{1}{10}$
7)	$\frac{1}{7}$	$\frac{2}{14}$
8)	$\frac{1}{3}$	$\frac{1}{18}$
9)	$\frac{1}{15}$	$\frac{2}{15}$
10)	$\frac{1}{2}$	$\frac{1}{8}$
11)	$\frac{2}{3}$	$\frac{3}{15}$
12)	$\frac{1}{6}$	$\frac{1}{18}$
13)	$\frac{1}{4}$	$\frac{1}{3}$
14)	$\frac{1}{3}$	$\frac{1}{9}$

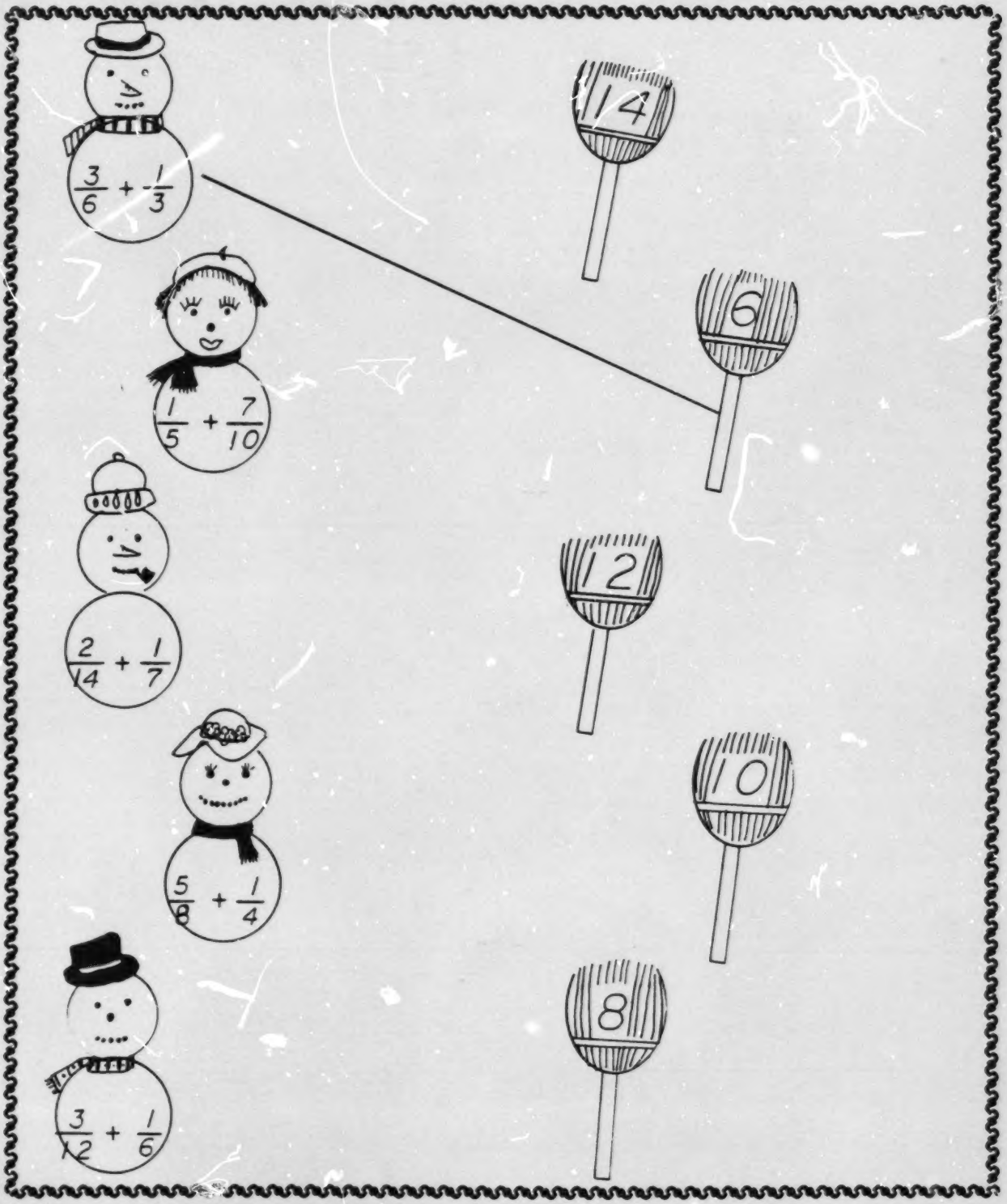
A. 8
E. 12
D. 10
H. 6
M. 4
O. 18
P. 14
S. 9
T. 15

1	2	3	4	5	6	7	8	9	10	11	12	13	14
M													

P.O. 04.06.07.02

NAME: _____ CLASS: _____ DATE: _____

Match the snoman to his common denominator and add.



198

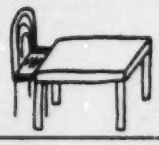
P.O. 04.06.07.03

NAME:_____ CLASS:_____ DATE:_____

Find the common dominator to help you solve the problems.

1. Michael helped his father do some repair work. He worked $\frac{1}{5}$ hour on Monday, and $\frac{2}{10}$ hour on Tuesday. How long did he work with his father altogether?

2. A pitcher had $\frac{1}{4}$ cup of water. Lynette added $\frac{1}{2}$ cup of water. How much water was in the pitcher?



3. At 5:00 $\frac{3}{5}$ of the seats were filled in a restauraunt. At 6:00 $\frac{1}{10}$ more of the restaurant was filled. What part of the resturaunt was filled at 6:00?

4. After the first stop $\frac{5}{8}$ of the children were on the bus. At the second stop another $\frac{1}{4}$ boarded the bus. What part of the bus was filled at 6:00

5. Camille ran $\frac{5}{8}$ of a mile. She stopped for a drink and ran another $\frac{1}{4}$ mile. How far did she run altogether?

P.O. 4.06.08.01

NAME:_____ CLASS:_____ DATE:_____

Write the numerators for the equivalent fractions.

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20

$\frac{1}{2} = \frac{2}{4}$ $\frac{1}{2} = \frac{\quad}{6}$ $\frac{1}{2} = \frac{\quad}{16}$

2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30

$\frac{2}{3} = \frac{\quad}{6}$ $\frac{2}{3} = \frac{\quad}{9}$ $\frac{2}{3} = \frac{\quad}{12}$

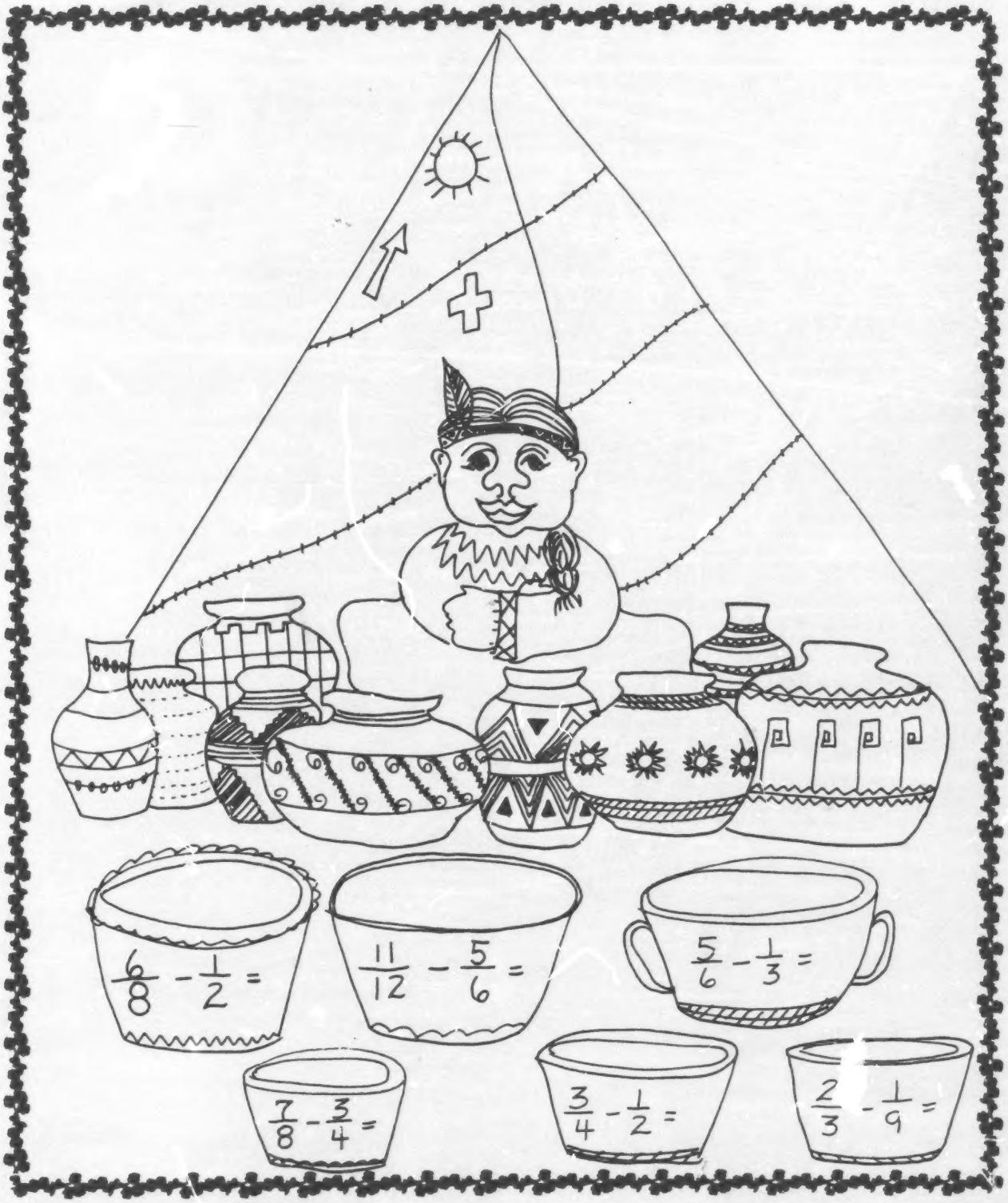
1	2	3	4	5	6	7	8	9	10
4	8	12	16	20	24	28	32	36	40

$\frac{1}{4} = \frac{\quad}{8}$ $\frac{1}{4} = \frac{\quad}{12}$ $\frac{1}{4} = \frac{\quad}{16}$

P.O. 4.06.08.02

NAME: _____ CLASS: _____ DATE: _____

Find the difference.

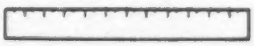


P.O. 04.06.08.03

NAME:_____ CLASS:_____ DATE:_____

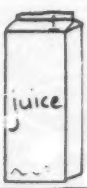
Find the difference.

1. Troy drew a line between the $\frac{5}{8}$" and $\frac{1}{4}$" markings on a ruler. How long was the line he drew?

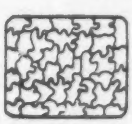


2. Phyllis ran $\frac{3}{4}$ mile. Andre ran $\frac{1}{2}$ mile. How much further did Phyllis run than Andre?

3. A container had $\frac{3}{4}$ quart of juice. Barbara spilled $\frac{1}{2}$ juice of a quart. How much juice was left?



4. Lonnie and Mandy put $\frac{7}{8}$ of a puzzle together. If Lonnie put $\frac{1}{4}$ of the puzzle together. What part did Mandy put together?



5. A plant measured $\frac{5}{8}$ inch in May and $\frac{15}{16}$ inch in June. How much did it grow?

P.O. 4.12.04.01

NAME: _____ CLASS: _____ DATE: _____

Find the average.

(1)

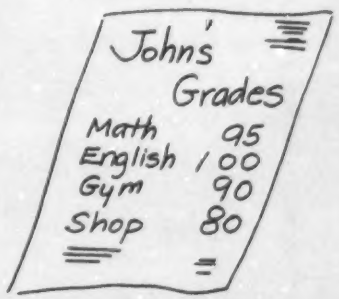
A. 7
2
+6
15

5
3) 15

(2)

4
3
5

___
3)



(3)

8
1
+6

___
3)

(4)

7
4
+7

___
)

(5)

9
1
8

___
)

(6)

23
+13

___
)

(7)

12
15
+21

(8)

23
12
+15

___
)

(9)

15
12
+15

___
)

(10)

3
4
5
+8

___
4)

(11)

13
12
9
14

P.O. 4.12.04.02

NAME: _____ CLASS: _____ DATE: _____

Identify the mode in each table.

Tally	Frequency
𝍸	4
𝍸	____
𝍸 III	____
𝍸 𝍸	____
II	____

Tally	Frequency
𝍸 𝍸 II	____
𝍸 𝍸 I	____
𝍸 𝍸 III	____
𝍸 𝍸 𝍸	____
𝍸 𝍸 𝍸 𝍸	____

Flavor	Tally	Frequency
Chocolate	𝍸 𝍸	10
Cherry	𝍸	4
Vanilla	𝍸 I	6

The mode is _____

Games Won

Team	Tally	Frequency
Mets	𝍸 III	8
Yankees	𝍸	5
Dodgers	𝍸 I	6

The mode is _____

Grade	Tally	Frequency
70	𝍸 III	____
80	𝍸 𝍸	____
60	III	____
90	𝍸 I	____

The mode is _____

Pets We Own

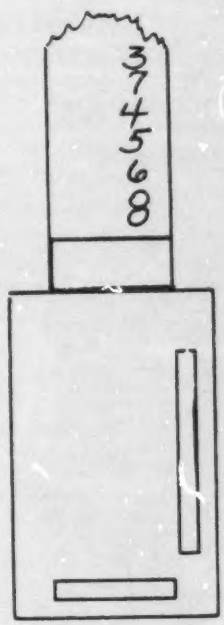
	Tally	Frequency
Dogs	𝍸 𝍸 III	____
Cats	𝍸 𝍸 I	____
Birds	III	____
Fish	𝍸 I	____

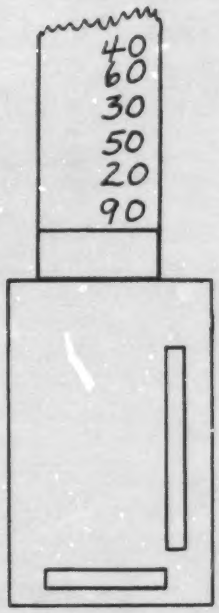
The mode is _____

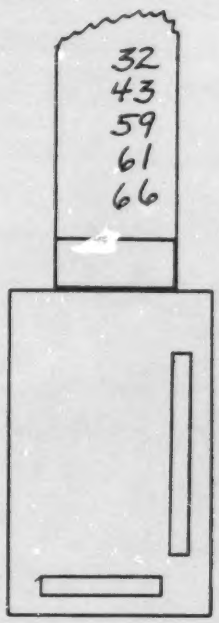
P.O. 4.12.04.03

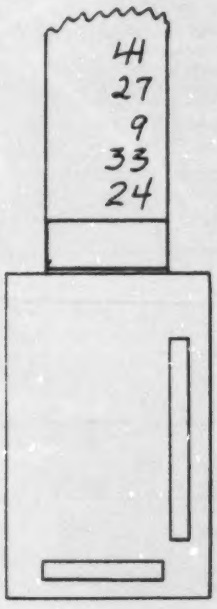
NAME: _____ CLASS: _____ DATE: _____

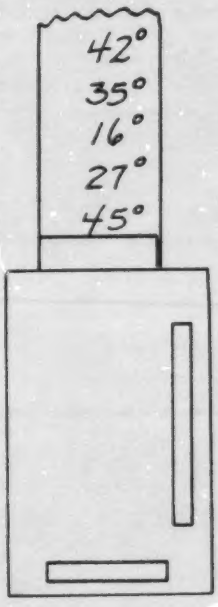
Find the range .
Write the range for each group.

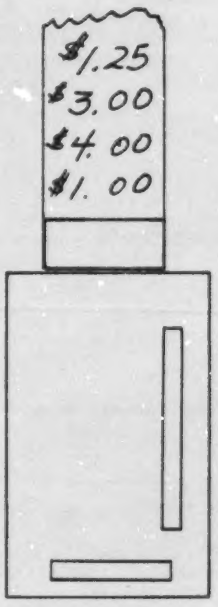








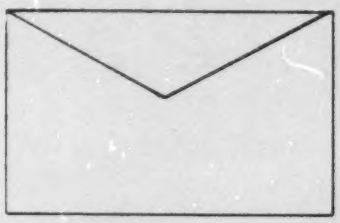




P.O. 4.04.04.01

NAME: _____ CLASS: _____ DATE: _____

Multiply. Use the key to solve the riddle.



What begins with "e" and ends with "e" and has only one letter in it?

①	②	③	④	⑤
20 X10 = 200	20 X20 =	30 X20 =	40 X10 =	70 X10 =
⑥	⑦	⑧	⑨	⑩
60 X10 =	10 X10 =	30 X10 =	50 X10 =	20 X30 =

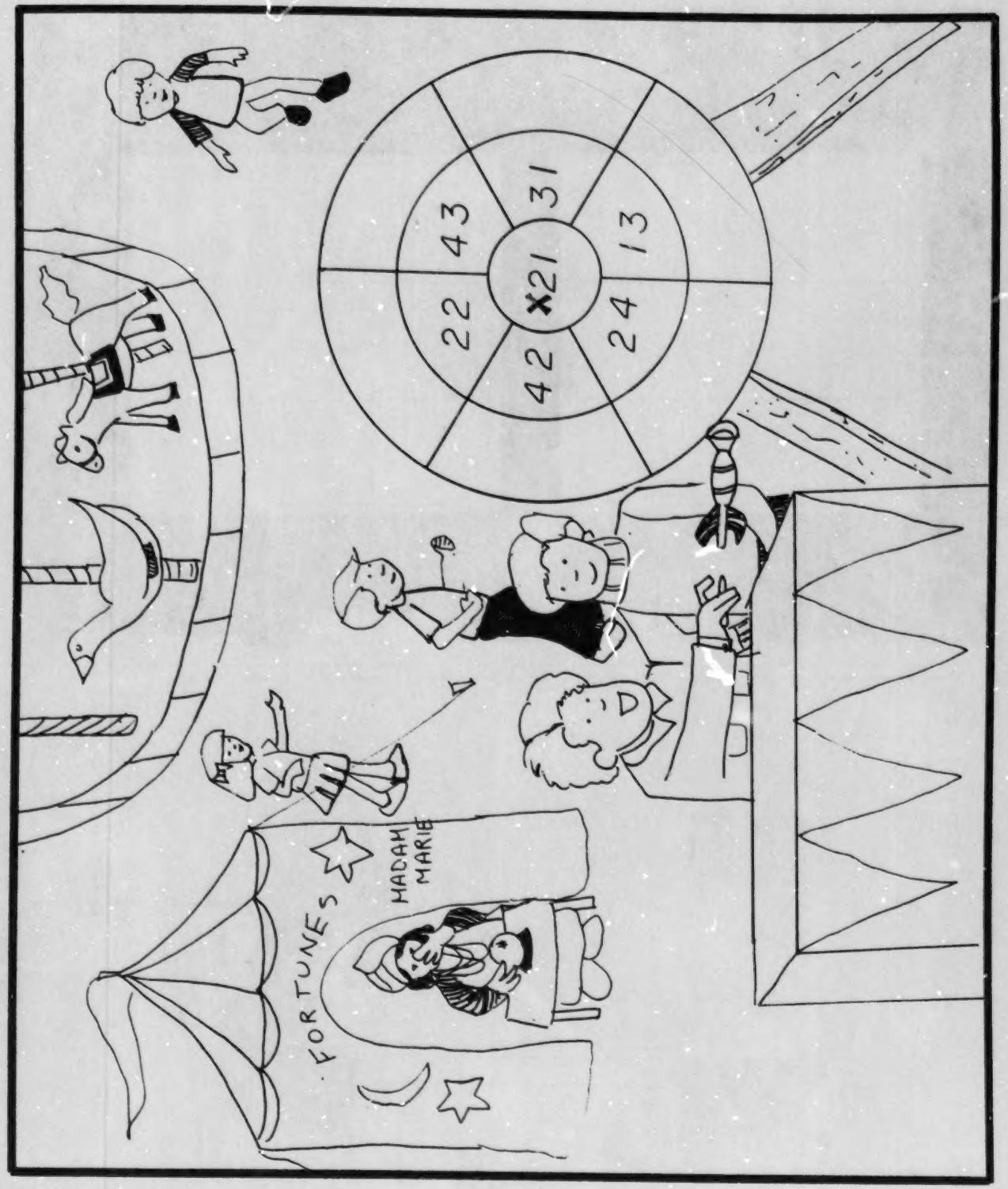
Key A	E	L	N	O	P	V
200	600	100	400	300	500	700

1	2	3	4	5	6	7	8	9	10
A									

P.O. 4.04 04.02

NAME:_____ CLASS:_____ DATE:_____

Find each product to complete the multplication wheel.



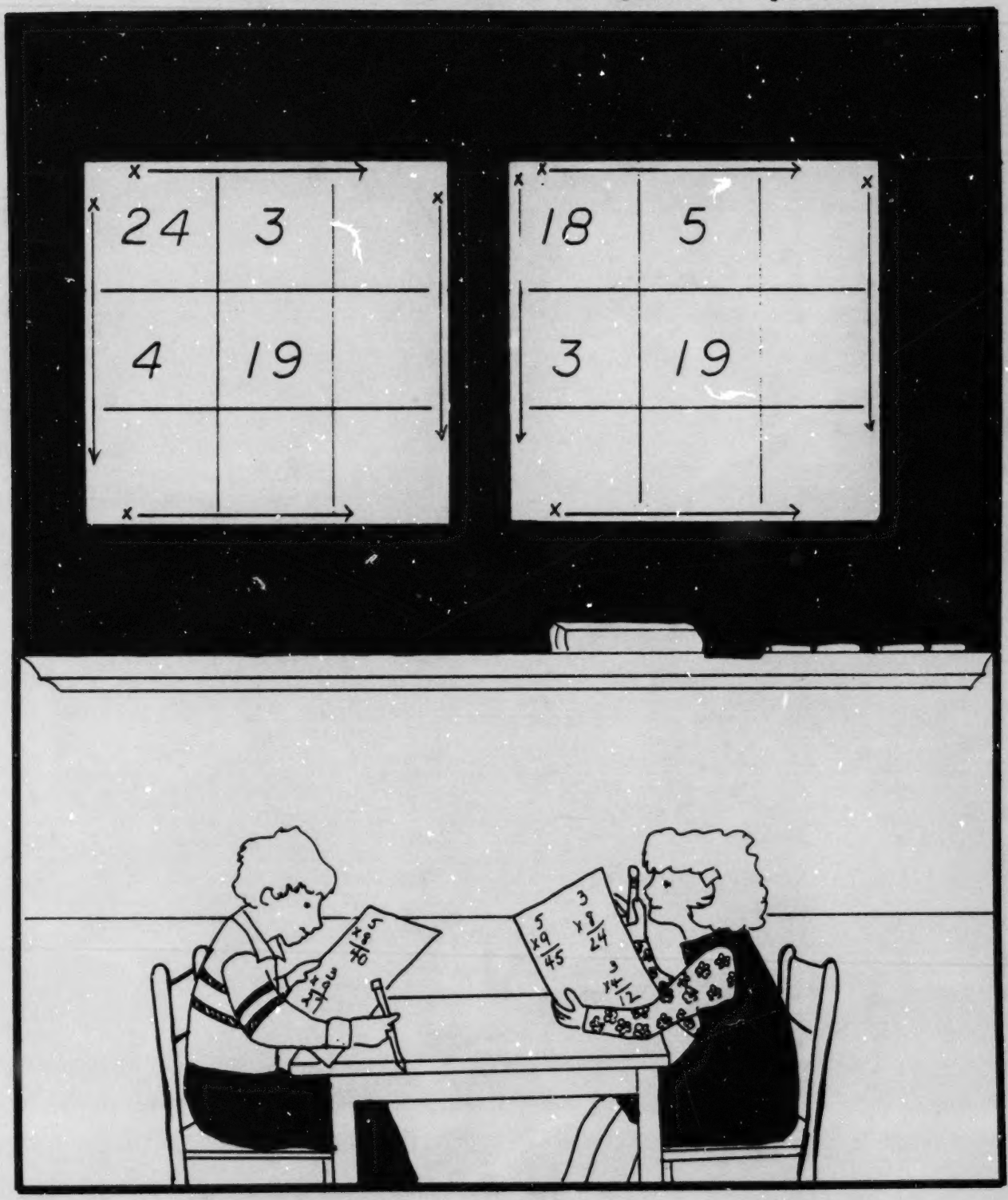
116

115

P.O. 4.04.04.03

NAME: _____ CLASS: _____ DATE: _____

Find each product to complete the multiplication squares.

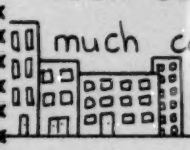


P.O. 4.04.04.04

NAME:_____ CLASS:_____ DATE:_____

I. Read each problem.
II. Solve the problem.
III. Label your answer.

1. The engineer said that he needed 18 tons of concrete for each building. His company is constructing 36 buildings. How much concrete will be needed in all?



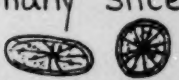
2. The 5th grade needed 24 sheets of paper for each student. If there are 56 students, how many sheets of paper will be needed?

3. Each of 43 school buses carries 28 passengers. How many passengers can all 43 school buses carry?

4. 58 youngsters went to the party. 29 went home early. How many youngsters stayed at the party?

5. Mr. Jones sold 43 footballs on Monday and 29 footballs on Tuesday. How many footballs did he sell on both days?

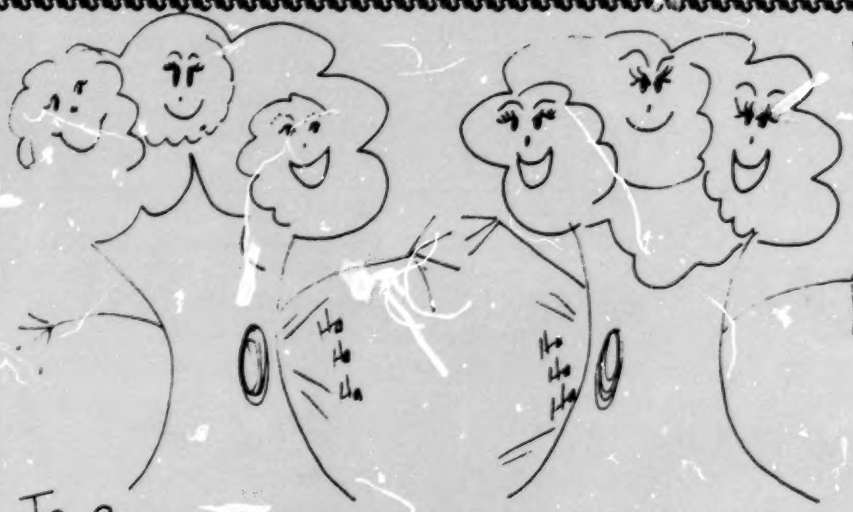
6. The football team won the championship. To celebrate, 32 pizzas were ordered. Each pizza was cut into 12 slices. How many slices were there?



P.O. 4.04.05.01

NAME: _____ CLASS: _____ DATE: _____

Multiply. Use the key to solve the riddle.



Where does a tree go on Saturday night?

To a _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

①	②	③	④	⑤	⑥
100 × 10 = 1000 L	200 × 10	300 × 20	40 × 30	500 × 10	600 × 20

⑦	⑧	⑨	⑩	⑪
700 × 10	300 × 30	300 × 40	400 × 10	900 × 10

Key

A	B	E	L	M	P	R	T	U	Y
9000	1200	5000	1000	6000	7000	12,000	4000	2000	7000

P.O. 4.04.05.02

NAME: _____ CLASS: _____ DATE: _____

Solve. Use the key to solve the riddle.

How does KING KONG like his steak?

A	15,834	M	5,060
D	15,300	O	11,997
E	18,126	R	17,424
I	16,102	U	19,142

① 230 × 22 = 460 + 4600 = 5060

② 318 × 57 = _____

③ 425 × 36 = _____

④ 194 × 83 = _____

⑤ 563 × 34 = _____

⑥ 460 × 11 = _____

⑦ 484 × 36 = _____

⑧ 279 × 43 = _____

⑨ 754 × 21 = _____

⑩ 968 × 18 = _____

1	2	3	4	5	6	7	8	9	10
M									

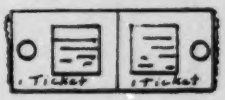
P.O. 4.04.05.03

NAME:_____ CLASS:_____ DATE:_____

Solve each problem.

1. 429 video games are manufactured in one day. How many video games are manufactured in 34 days?

2. 564 tickets were sold to the football game in one hour. How many tickets were sold in 16 hours?



3. 398 youngsters and 73 parents went to the home team game. Three times as many people went to the game last year. How many people went to the game last year?

4. John ran 397 yards, Mike ran 26 times as far. How far did Mike run?

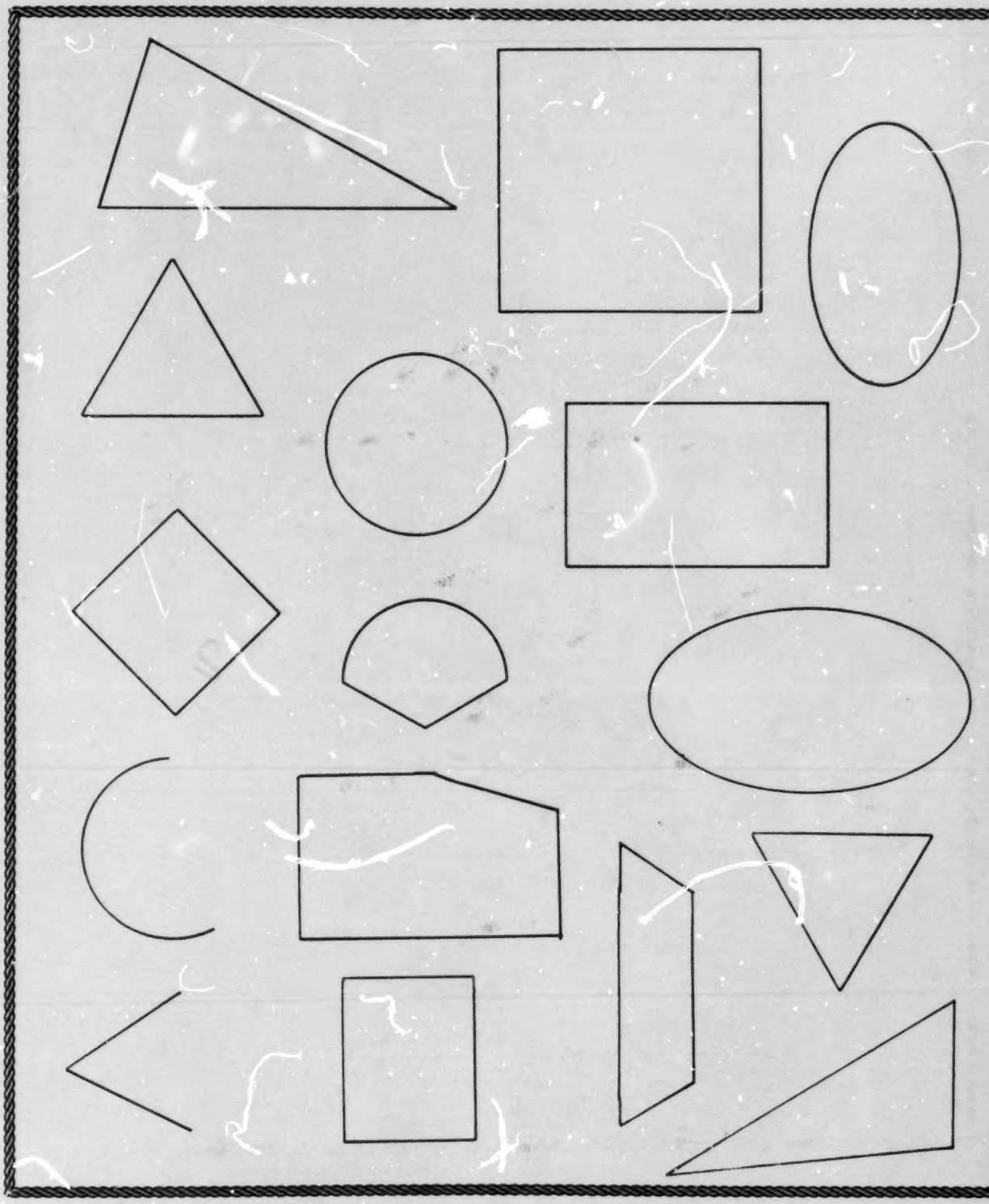
5. A bakery bakes 613 cakes a week. How many cakes were baked in 52 weeks?

6. Ann and Mary are going on a trip. They will travel 145 miles each day. How far will they go in 23 days?

P.O. 4.09.07.01

NAME: _____ CLASS: _____ DATE: _____

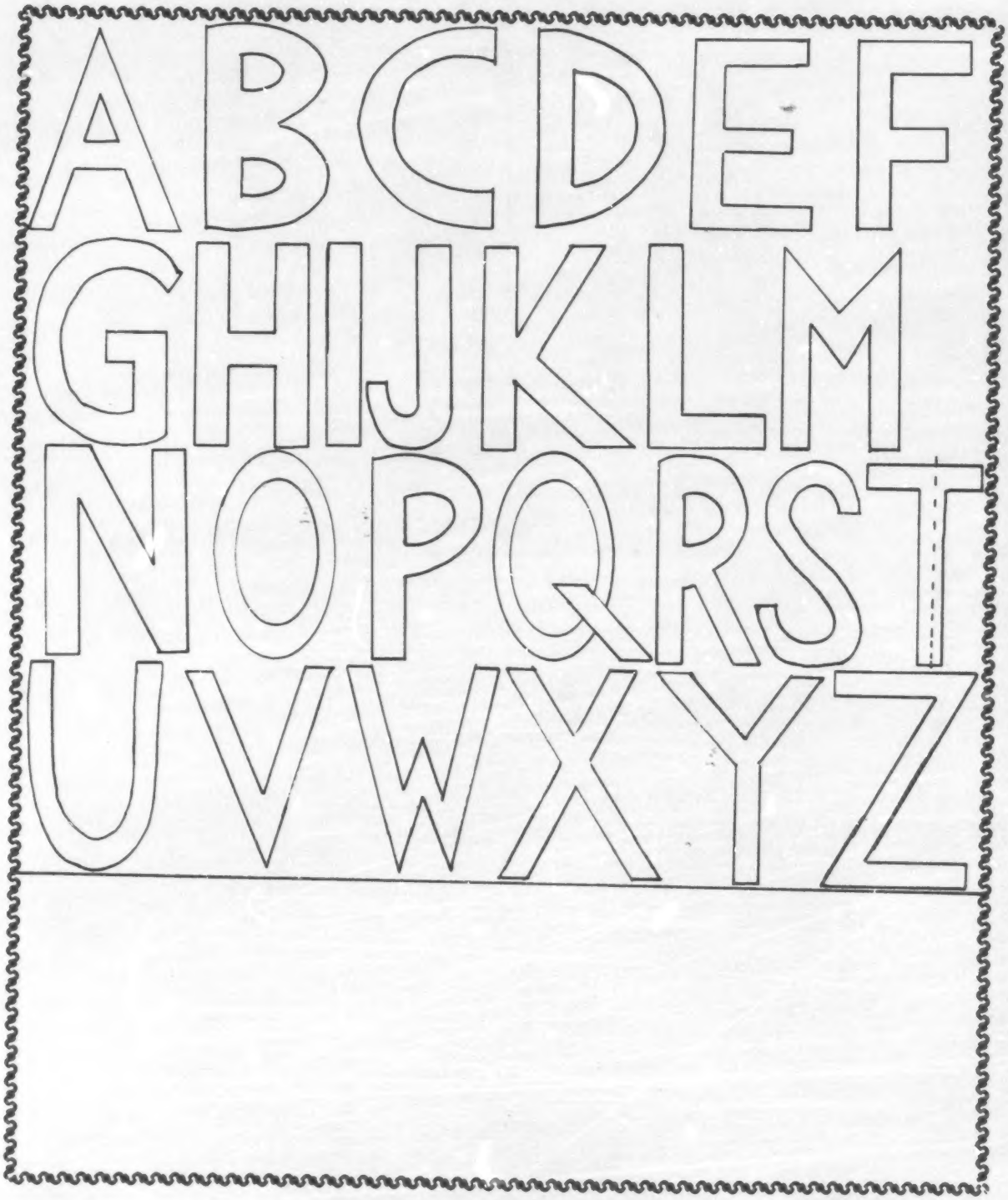
Draw a line or lines of symmetry in each square.



P.O.4.09.07.02

NAME:_____CLASS:_____DATE:_____

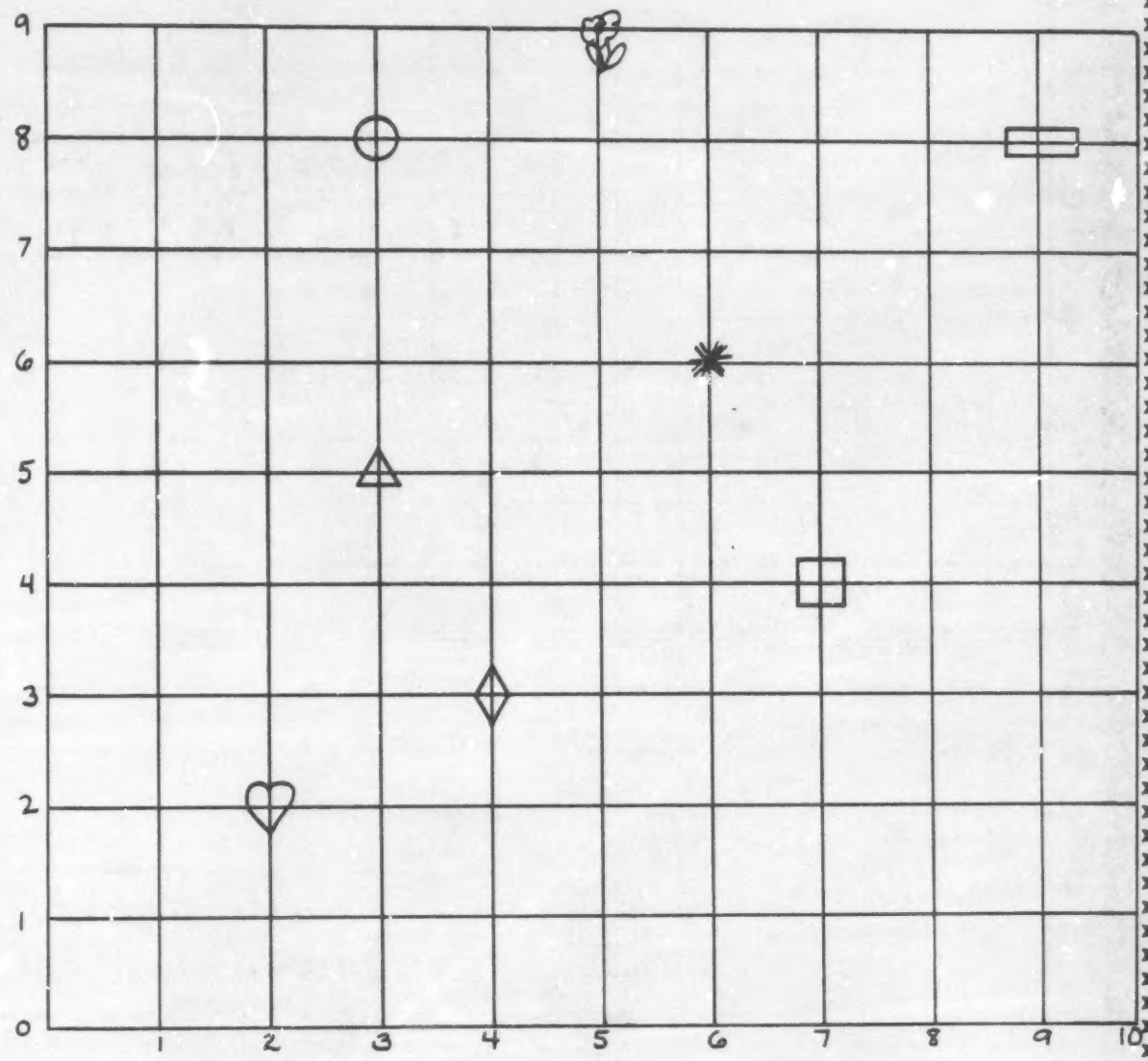
1) Find the letters which have lines of symmetry. Draw the line.
2) Print two words that are symmetrical.



P.O. 4.09.08.01

NAME: _____ CLASS: _____ DATE: _____

Locate the coordinates.



The ♡ is at (2,2)

The △ is at _____

The ◇ is at _____

The ✿ is at _____

The O is at _____

The ✳ is at _____

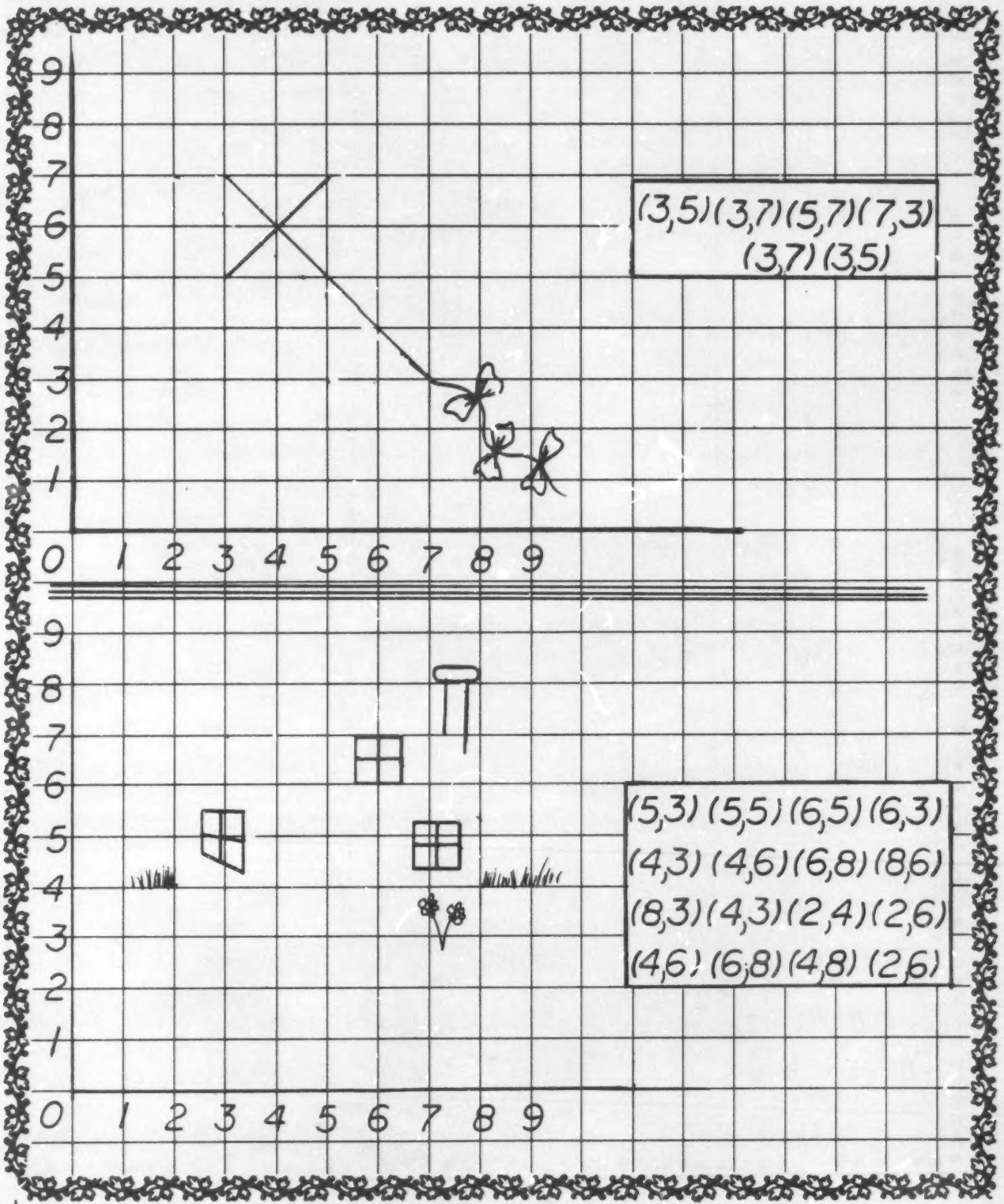
The □ is at _____

The ▭ is at _____

P.O. 4.09.08.02

NAME: _____ CLASS: _____ DATE: _____

Locate the coordinators.
Connect the points in order.



P.O. 4.05.06.01

NAME: _____ CLASS: _____ DATE: _____

Find the quotient.

20) 45

20) 86

30) 60

30) 70

40) 72

50) 79

30) 90

40) 80

20) 31

70) 86

P.O. 4.05.06.02

NAME: _____ CLASS: _____ DATE: _____

Find the quotient.

30) 7410

40) 813

20) 421

20) 9410

30) 6713

50) 191

80) 163

50) 2413

40) 8910

50) 361

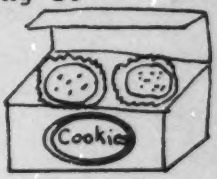
P.O. 4.05.06.03

NAME:_____ CLASS:_____ DATE:_____

Solve the problems.

a) 480 students are in school. If 20 students sit in each row, how many rows will there be?

b) 660 cookies are in a box. If these are divided among 20 classes, how many cookies will each class receive?



c) There are 2,400 books, in the library. If we place 20 on each shelf, how many shelves do we need?

d) There are 360 straws. If we place 30 in a box, how many boxes will we fill?

e) There are 320 beads. If we place 20 on a necklace, how many necklaces can we make?

P.O. 4.05.07.01

NAME: _____ CLASS: _____ DATE: _____

Find each quotient and check.

Trevor collects pennies. He puts 25 coins in a book. How many books will he need, if he has 75 pennies?

Divide:

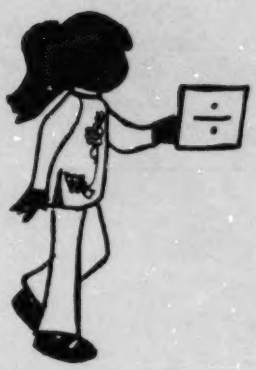
$40\overline{)72}$ $15\overline{)64}$ $18\overline{)91}$

$13\overline{)79}$ $36\overline{)97}$ $12\overline{)86}$

P.O. 4.05.07.02

NAME:_____ CLASS:_____ DATE:_____

Divide



$$\begin{array}{r} 35\text{r}3 \\ 27\overline{)948} \\ -810 \\ \hline 138 \\ -135 \\ \hline 3 \end{array}$$

30×27

5×27

Divide

① $57\overline{)912}$

② $29\overline{)992}$

③ $11\overline{)1355}$

④ $12\overline{)2781}$

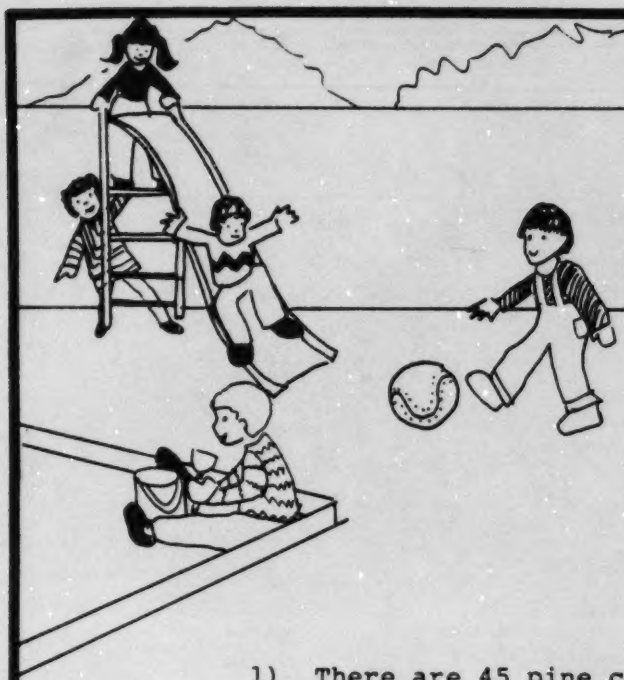
⑤ $79\overline{)2815}$

⑥ $85\overline{)5985}$

P.O. 4.05.07.03

NAME: _____ CLASS: _____ DATE: _____

Solve.



Choose operation

Set up algorithm

Solve

Answer Problem

1) There are 45 pine cones for a nature study. They put 7 pine cones in each bag. How many full bags do they have? _____

2) One box of oatmeal cereal is enough for 7 servings. How many boxes should be bought to feed 23 people. _____

3) Sonya has 105 walnuts to pass out at a picnic. If there are 15 tables, how many walnuts would go on each table? _____

4) Louise must pack 255 notebooks in boxes. Each box holds 1 dozen notebooks. How many notebooks will be left over, after as many boxes as possible are filled? _____

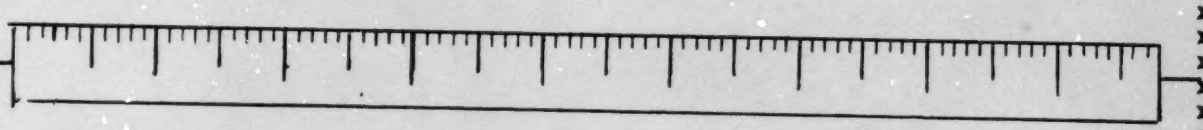
P.O. 4.09.09.01

NAME:_____ CLASS:_____ DATE:_____

Construct a triangle with a 2 inch side.
Use your protractor to construct a square. Begin with a 3 inch side.
Use your compass to construct a circle inside the square.

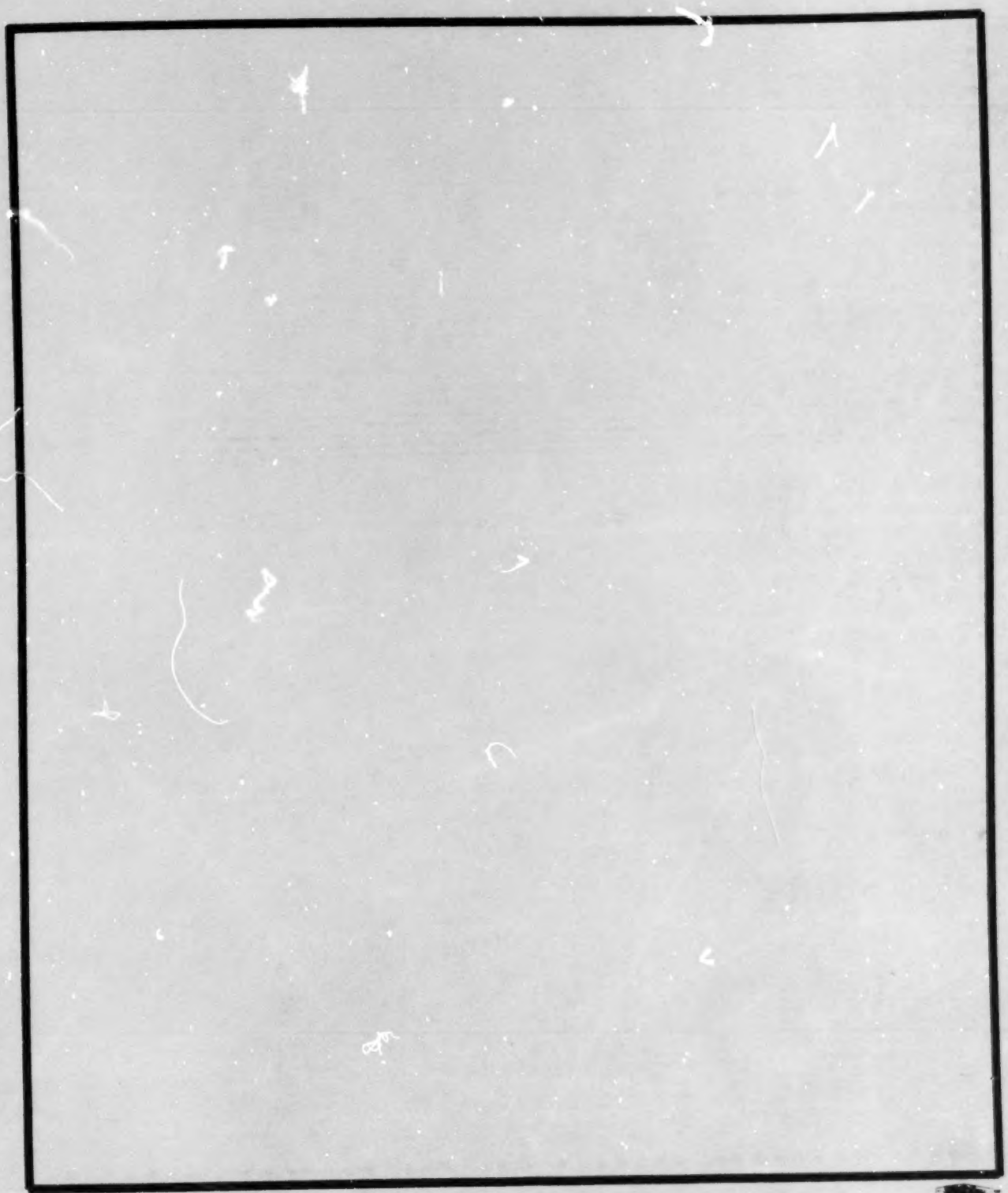
CONSTRUCT A SQUARE

CONSTRUCT A TRIANGLE



CONSTRUCT A CIRCLE

P.O. 4.09.09.02

NAME:_____CLASS:_____DATE:_____

Use your ruler, protractor and compass to make your own design or picture.